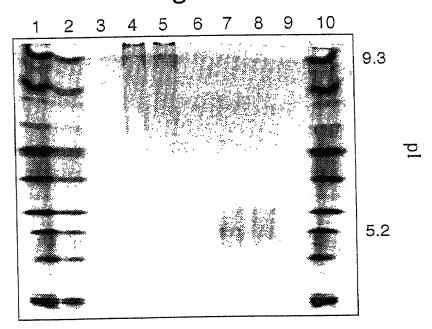
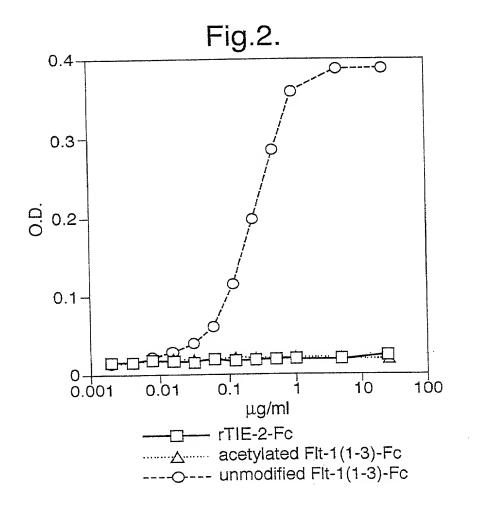
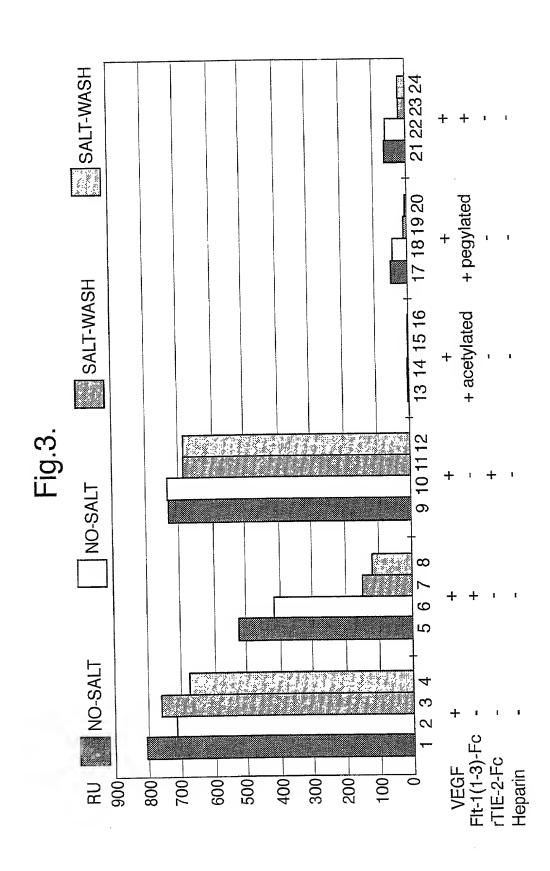


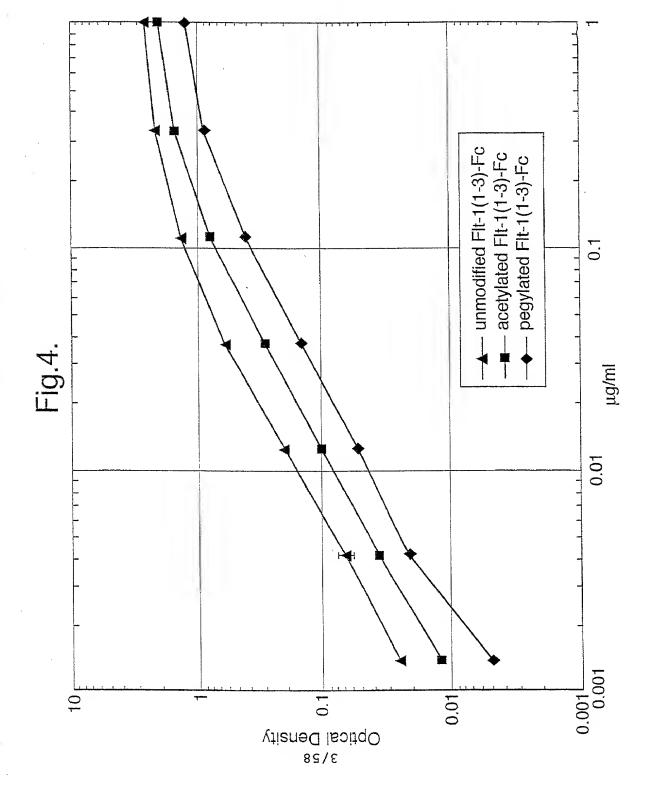
Fig.1.



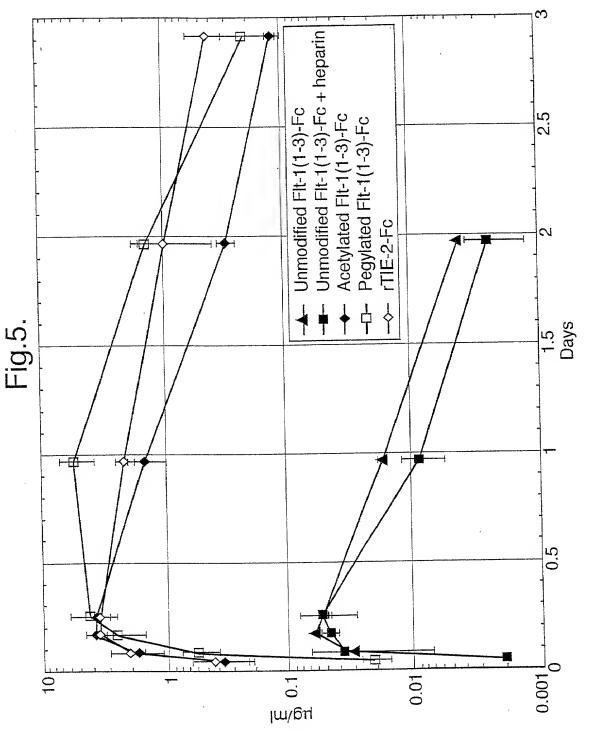












8⊆/₺





Fig.6A.

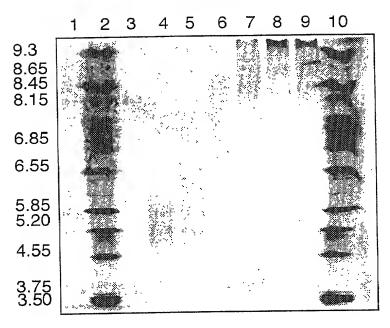
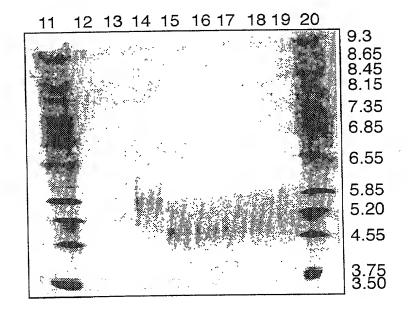
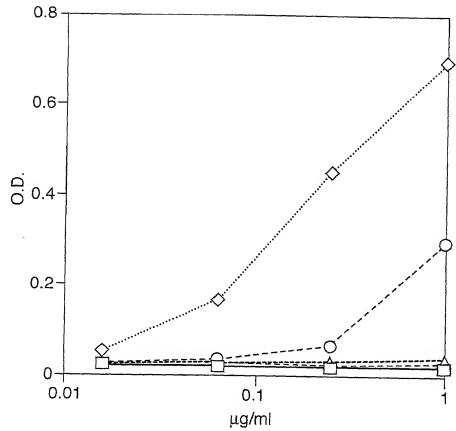


Fig.6B.









rTIE-2-Fc

unmodified Flt-1(1-3)-Fc

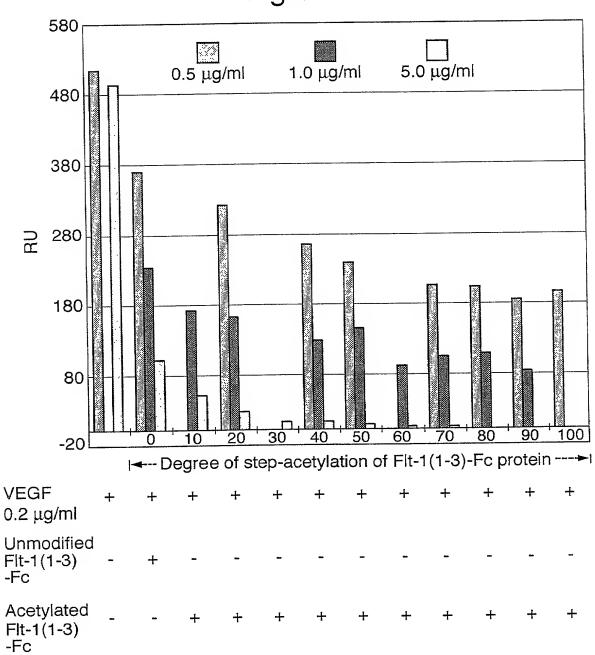
---- acetylated Flt-1(1-3)-Fc (10X)

-----<u>A</u>----- acetylated Flt-1(1-3)-Fc (20X)

--- acetylated Flt-1(1-3)-Fc (30X)



Fig.8.



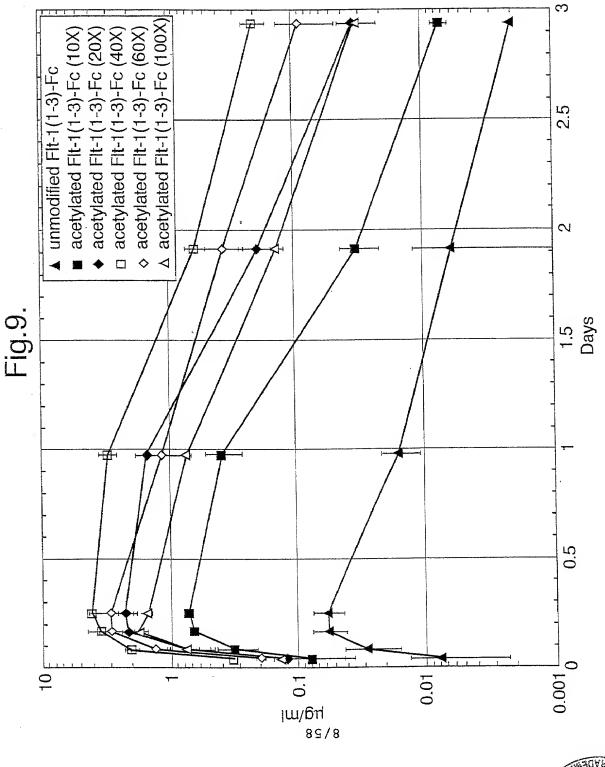






Fig.10A.

			,													
*	10 *		20		*	30 *		*	4	.0 *	*		50 *		*	60 *
ATG GTC A		ייים האמרים ממשבים ה					CdAS		GCG			AGC		CTYG		
TAC CAG T																
Met Val S	Ser Tyr	Trp P	sp Th	r Gl	y Val	Leu	Leu	Cys	Ala	Leu	Leu	Ser	Cys	Leu	Leu	Leu>
			_	_		•							4.0			100
*	70 *	*	80) ★	*	90 *		*	10	*	*	1	.10		*	120 *
ACA GGA 1			GT T	AA AC			GAT	CCT	GAA	CTG	AGT	TTA	AAA	GGC	ACC	CAG
TGT CCT A																
Thr Gly S	Ser Ser	Ser (Bly S	er Ly	s Leu	Lys	Asp	Pro	Glu	Leu	Ser	Leu	Lys	Gly	Thr	Gln>
	130		14	Ω		150			16	50		1	L70			180
*	*	*		*	*	*		*		*	*	ئە	*		*	*
CAC ATC 2																
GTG TAG																
His Ile 1	Met Gln	Ala (Gly G	In Th	r Leu	His	Leu	Gln	Cys	Arg	Gly	Glu	Ala	Ala	His	Lys>
	190		20	0		210			22	20		:	230			240
*	*	*		*	*	*		*		*	*		*		*	*
TGG TCT																
ACC AGA																
Trp Ser	red Pro	GIU.	met v	ar se	T PA:	s GIU	Ser	GIU	wig	reu	Ser	TTE	1111	DĀS	Ser	ALA/
	250		26	0		270	,		2	80		:	290			300
*	*	*		*	*	*		*		*	*		*		*	*
TGT GGA																
ACA CCT Cys Gly																
-,- 0-,	5	0-1			,											
	310		32			330			3	40			350			360
* CAC ACT	*	*	200 5	* ''''	* מווא	m omi		* • • • • • • • • • • • • • • • • • • •	C C III	* : x~m	* גי~ת .	አአር	* * **~	• 7 \ 7\ C	* ממיטי	* . ארש
GTG TGA																
His Thr																
*	370 *	*	38	30 *	*	39) *	*	4	.00 *	*		410		*	42 0 *
GAA TCT			ATA 1						AGA					YPA E		
CTT AGA																
Glu Ser	Ala Ile	yr Tyr	Ile :	Phe I	le Se	r As	p Thr	Gly	r Arg	g Pro	Phe	· Val	Gli	ı Met	Ty	Ser>
	430		4	40		45	^		,	160			470			480
*	430 *	*	4	40 *	*		*	*	4	*	,	+	470		*	#60
GAA ATC																
CTT TAG																
Glu Ile	Pro Gli	ı Ile	Ile	His M	et Ti	ır Gl	u Gly	y Arg	g Gl	ı Leı	ı Va.	l Ile	e Pr	о Су	s Ar	g Val>
	490		5	00		51	.0			520			530			540
*	*	*		*	*		*	*		*		*	*		*	*
ACG TCA																
	GGA TTV															
mr ser	Pro As	и тте	INI	val .	اسل 111.	ես Իչ	⁄s μ <u>γ</u>	o rn	e Pr	o ne	u AS	h lu	ı υe	u 11	e PI	o wsb>



Fig.10B.

			Llí	კ. ∣	U	D.													
	*	55	60 *	*	5	60 *		*	570 *		*	58	*	*	5	90 *		*	600 *
GGA	AAA	CGC	ATA	ATC	TGG	GAC	AGT	AGA	AAG	GGC	TTC	OTA	ATA	TCA	TAA	GCA	ACG	TAC	AAA
												TAG							
Gly	Lys	Arg	Ile	Ile	Trp	Asp	Ser	Arg	Lys	Gly	Phe	Ile	Ile	Ser	Asn	Ala	Thr	Tyr	Lys>
		63	LO		(520			630			64			(550			660
	*		*	*		*		*	*		*		*	*		*		*	*
												GGG							
												CCC							TYT>
Gru	TTG	GIY	Deu	Dea	1111	CYS	GIU	MTG	1111	var	voii	Gry	1112	nea	TAT	цуз	1111	USII	1717
		67	70		ϵ	680			690			70	0		•	710			720
	*		*	*		*		*	*		*		*	*		*		*	*
												CAA							
												GTT							
Leu	Thr	His	Arg	Gln	Thr	Asn	Thr	Ile	Ile	Asp	Val	Gln	Ile	Ser	Thr	Pro	Arg	Pro	Val>
		73				140			750			76				770			780
	*	12	*	*	,	740 *		*	/50 *		*	70	*	*	•	*		*	/0U *
AAA	TTA	CTT	AGA	GGC	CAT	ACT	CTT	GTC	CTC	TAA		ACT	GCT	ACC	ACT	ccc	TTG	AAC	ACG
												TGA							
Lys	Leu	Leu	Arg	Gly	His	Thr	Leu	Val	Leu	Asn	Cys	Thr	Ala	Thr	Thr	Pro	Leu	Asn	Thr>
		79	_		8	300			810			82			1	830			840
	*	<i>a</i>	*	*		*		*	*	C2.3	*	330	*	*		*	002	*	*
												AAT ATT							
																			Arg>
						501	-1-				1		2						5
		85	50		8	360			870			88	30		;	890			900
	*		*	*		*		*	*		*		*	*		*		*	*
												TAC							
												ATG							
Arg	TTE	Asp	GIN	Ser	Asn	Ser	HIS	ALG	ASI	тте	Pne	TYL	sei	var	reu	THE	TTE	Asp	Lys>
		91	LO		9	920			930			94	10		•	950			960
	*		*	*		*		*	*		*		*	*		*		*	*
ATG	CAG	AAC	AAA	GAC	AAA	GGA	CTT	TAT	ACT	TGT	CGT	GTA	AGG	AGT	GGA	CCA	TCA	TTC	AAA
																			TTT
Met	Gln	Asn	Lys	Asp	Lys	Gly	Leu	Tyr	Thr	Cys	Arg	Val	Arg	Ser	Gly	Pro	Ser	Phe	Lys>
		0.	7.0			000			990			100	20		7	010			1020
	*	9	70 *	*		980 *		*	*		*	100	*	*	1	*		*	*
TCT	GTT	AAC	ACC	TCA	GTG	CAT	ATA	TAT	GAT	AAA	GCA	GGC	CCG	GGC	GAG	CCC	AAA	TCT	TGT
AGA	CAA	TTG	TGG	AGT	CAC	GTA	TAT	ATA	CTA	TTT	CGT	CCG	GGC	CCG	CTC	GGG	TTT	AGA	ACA
Ser	Val	Asn	Thr	Ser	Val	His	Ile	Tyr	Asp	Lys	Ala	Gly	Pro	Gly	Glu	Pro	Lys	Ser	Cys>
		10:	-		1	040			1050			10			1	.070			1080
~~~	*	, ~-	*	*	mo-	*	~~~	*	*	~~+	*	<i>~</i> **	*	*	~~~	*	~~~	* . m~1*	*
																			GTC
																			Val:



Fig.10C.

			ı	'y			<i>-</i>															
	*	109	*	,			*		*	.110			*		*	*		L30 *		*	114	*
TTC	CTC	TTC	ccc	CCZ	A	AA C	CC 2	AAG (	GAC	ACC	CIY	C A	TG P	TC	TCC	CGG	ACC	CCT	GAG	GT	C A	CA
AAG	GAG	AAG	GGG	GG.	r T	TT G	GG '	TTC	CTG	TGG	GA(	G T	AC 1	rag	AGG	GCC	TGG	GGA	CIC	: CA	G T	GT h~>
Phe	Leu	Phe	Pro	Pro	o L	ys P	ro:	Lys .	Asp	Thr	Le	u M	et 3	ше	ser	Arg	THE	PIO	GIL	ı va	.1 1	111/
						116	^			1170				118	ın.		1:	190			12	00
	*	11!	>U *		*	116	*		*	*			*		*	*	_	*		*		*
TGC	CTYC	GTG	GTG	GA	C G	TG A	.GC	CAC	GAA	GAC	CC	T G	AG (	GTC	AAG	TTC	AAC	īGG	TAC	GI	ig g	AC
ACG	CAC	CAC	CAC	CT	G C	AC I	CG.	GTG	CTT	CTG	GG	A C	TC (	CAG	TTC	AAG	TTG	ACC	MY	à CE	AC C	TIG:
Cys	Val	Val	Va]	As	V q	al S	Ser	His	Glu	Asp	Pr	:o G	lu '	Val	Lys	Phe	Asn	Trp	Ту	r Va	al A	<qa< th=""></qa<>
														124	10		1	250			15	260
	*	12	10		*	122	*		*	1230 *			*	124	*	*		*		*		*
CCC		CNC				ኔም (		AAG				G C	GG	GAG	GAG	CAG	TAC	CAA	AG	C A	CG ?	rac
CCG	CAC	CTC	CAC	GT	r A'	TA (	CGG	TTC	TGT	TTC	. G0	3C (	3CC	CTC	CTC	GTC	ATG	TIC	TO	G I	GC 2	AIG
Gly	Val	Glu	Va	l Hi	s P	Asn 1	Ala	Lys	Thr	Lys	Pr	co 2	arg	Glu	Glu	Gln	Tyr	Asr	Se	r T	hr :	ľyr>
-																						320
		12	70			12	80 *		*	1290			*	13	*	*		L310 *		*		*
~~~	*	- cmc	*	~ ~	*	-VII-		GTC				AG (		TGG		PAA :	GGG	CAAC	G GA	G T	AC :	AAG
CCA	CAC	י השני	. אט	כים מים	10 C	TAG	rcc rcc	CAG	GAC	GT	3 G:	TC (CTG	ACC	GAC	TTA	ccc	TTY	CI	C A	TG	TTC
Ara	Val	. Val	Se	r Va	al 1	Leu	Thr	Va1	Let	ı His	s G	ln.	Asp	Trp	Lev	Asr	Gly	y Ly:	s Gl	u I	Уľ	Lys>
		13	30			13				1350			*	13	60 *	*		L370 *		*		380 *
	*		*	~ •	*		*	CTC	*			~		GAG					. AA	A G	CC .	AAA
TGC	AAG	GIC	10	C AA	3C 2	MAA.	GCC.	GAG	CC	CGC	. CK	GG '	TAG	CTC	TTT	TGG	TAC	G AG	g TT	T C	:GG	$ ext{TT}$
CVS	Lvs	Val	Se	r As	io .	Lvs	Ala	Leu	Pro	Ala	a P	ro	Ile	Glu	Lys	Thr	: Ile	e Se	r Ly	s A	la	Lys>
-2-						•																
		13	390			14	00			141			*	14	20	4		1430 *		*		.440 *
	*		*		*		*	~=~	*		*	ma		CCA					מ הו			
GGG	CAC	CCC	CG	AG	AA I	CCA	CAG	GTG CAC	TAC	S AC	2 C	1G	aca	GGT	' AGC	; GC	CT	A CT	C G	AC 7	rgg	TTC
CCC	GIC	GG	3 GC 3 N ≈	T C	1-1. 1-1.	Bro GGI	GIO	Val	Tv:	r Th	r L	eu	Pro	Pro	Se	r Arg	g As	p Gl	u L	eu :	Thr	Lys>
GTĀ	GII	I EL	יברי	.g G	_u	110	U		-4													
		14	450			14	60			147				14	180			1490			*	L500 *
	*		*		*		*		*		*		*	m2.0	*		* ግርክ	* תי את				
AAC	CAC	GT	C AC	EC C	TG	ACC	TGC	GAC	GI	C AA	A.G	10C	TIC	ייים ב	, GC	ב אל. בינים	GCT	G TA	G C	GG (CAC	GAG CTC
TTC	GIV	CA	G IV 1 Ca	KG G ar T	AC AU	TGG.	AUG	Leu	. Ua.	3 11 1 Lv	rs G	ilv	Phe	Тул	r Pr	o Se	r As	p Il	e A	la '	Val	Glu>
ASI	1 311	. va	1 50		eu	1111	C1 L			2		-		_								
		1	510			15	520			153				1	540			1550				1560 *
	*		*		*		*		*		*		*		*		* *		יי איי ר		* ሮክሮ	
TG	G GA	G AG	CA	AT G	GG	CAG	CCC	GAC	S AA	C AA	AC :	LAC	AAG	ACT	C AC	e cc	ET CC	10 G.	ים ני ים ני	:AC	CTG	TCC
AC(CT	CTC	G T	ra c	:CC	GIC	GG() CIN	J TT	in As	iG 2	rvr	Lvs	. IG	r Th	r Pr	o Pi	co V	al I	eu	Asp	AGG Ser>
TI	o GI	u se	I A	511 0	ıΤλ	GIII	ZIC	<i>J</i> G1.		,,,,												
		1	.570			1	580			159				1	600			161	_			1620
	*		*		*		*		*		*	200	*	יי א	* 	ירי אר	בר באנ *		* @@ (ביער	* CAC	* *
GA	C GG	C TO	CT	TC !	DTC	CTC	TA	CAG	C Al commo	¥G C'	TC.	ACC TYPE	ري 12ني	י כא: בי כית	C 1741	יים או מיים או	CG TY	CC A	CC (GTC	GIY	GGG CCC
Δα	ა (C(უ (C 1	.v Se	ss A er P	he !	naG Phe	Leu	TV	r Se	r L	ys L	eu	The	Va	1 As	sp Ly	rs Se	er A	rg I	rp (Gln	Glr	ı Gly>

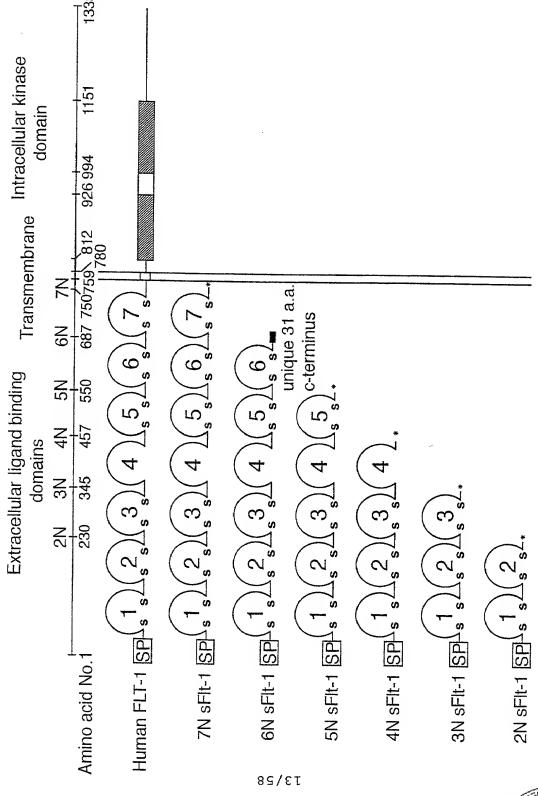


Fig.10D.

1690 1700

CTC TCC CTG TCT CCG GGT AAA TGA GAG AGG GAC AGA GGC CCA TTT ACT Leu Ser Leu Ser Pro Gly Lys ***>

Fig. 11





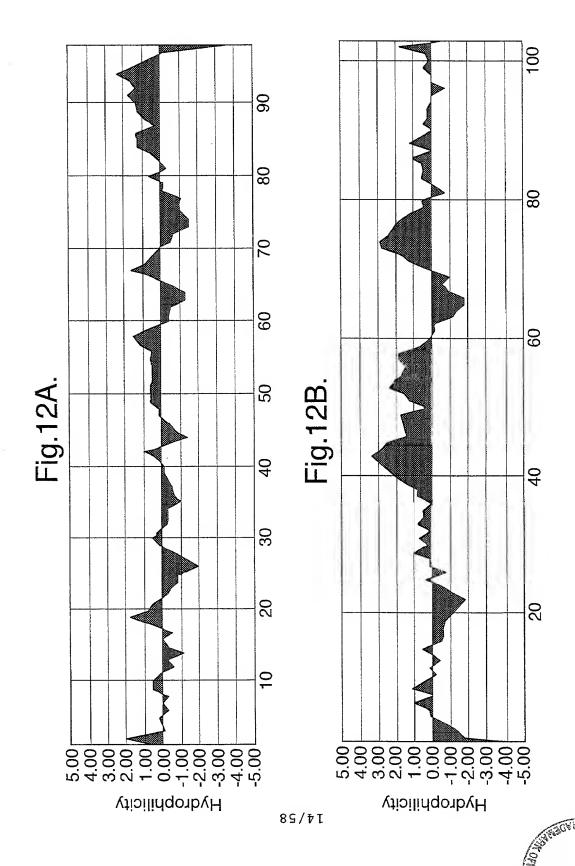




Fig.13A.

1 16	<i>j.</i> 107 (.					
10	20	30		40 * *	50 *	60 * *
* * ATG GTC AGC TAC TG	* *		* * *			
TAC CAG TCG ATG AC	TO CITYS TYSIS OF	C CAG GAC	C GAC ACG	CGC GAC GAG	TCG ACA GAC	GAA GAG
Met Val Ser Tyr Tr	to Asp Thr Gl	y Val Let	u Leu Cys	Ala Leu Leu	Ser Cys Leu	Leu Leu>
	•	_				
70	80	90		100	110	120
* *	* *		* *	* *	*	* *
ACA GGA TCT AGT TC	LA GGT TCA AF	AAA ATT A	A GAT CCT	GAA C'IG AGI'	AND DEEP CCC	TCC CAG
TGT CCT AGA TCA AG Thr Gly Ser Ser Se	FT CCA AGT TI	r AAT TT.	r CIA GGA	Glu Leu Ser	Leu Lvs Glv	Thr Gln>
THE GIV SET SET SE	st Giv Ser Di	3 1100 113.	2			
130	140	150	50	160	170	180
* *	* *		* *	* *	*	* *
CAC ATC ATG CAA GO	CA GGC CAG AG	A CTG CA	AT CTC CAA	TGC AGG GGG	GAA GCA GCC	CAT AAA
GTG TAG TAC GTT CO	FT CCG GTC TO	ST GAC GT	ra Gag Gir	CVS Arg Glv	Glu Ala Ala	His LVS>
HIS ILE MET GIN A.	ia Giy Gili II	n neu m	is bea Giii	Cyb img Cig	024 1	-1
190	200	21	10	220	230	240
* *	* *		* *	* *	*	* *
TGG TCT TTG CCT G	aa atg gtg a	GT AAG GA	AA AGC GAA	AGG CTG AGC	ATA ACT AAA	TCT GCC
ACC AGA AAC GGA C	TT TAC CAC T	CA TTC CT	rr rcg crr	TCC GAC TCG	TAT TGA TIT	AGA CGG
Trp Ser Leu Pro G	lu Met Val S	er Lys Gi	iu ser Giu	Aig Leu Sei	ire im bys	Ser Araz
250	260	27	70	280	290	300
* *	* *	*	* *	* *	*	* *
TGT GGA AGA AAT G	GC AAA CAA T	TC TGC AG	GT ACT TTA	ACC TTG AAC	ACA GCT CAA	GCA AAC
ACA CCT TCT TTA C	CG TTT GTT A	AG ACG TO	CA TGA AAT	TGG AAC TIG	TGT CGA GTT	Ala Aen>
Cys Gly Arg Asn G	ily Lys Gin F	ne cys se	er Thi beu	III beu Asi	IIII AIA GII	i Ald Asii
310	320	33	30	340	350	360
* *	* *	*	* *	* *		* *
CAC ACT GGC TTC T	AC AGC TGC A	AA TAT CI	TA GCT GTA	CCT ACT TCA	AAG AAG AAG	GAA ACA
GTG TGA CCG AAG A	TG TCG ACG T	TT ATA GA	AT CGA CAT	GGA TGA AGT	TTC TTC TTC	CIT IGT
His Thr Gly Phe T	yr ser cys i	As tar ne	eu Ara var	FIO III Ser	. Dys Dys Dys	, 014 1111
370	380	39	90	400	410	420
* *	* *	*	* *	* *		* *
GAA TCT GCA ATC T	TTT ATA TAT	TT AGT G	AT ACA GGT	AGA CCT TIX	GTA GAG ATY	3 TAC AGT
CTT AGA CGT TAG	AAA TAT ATA	AA TCA C	TA TGT CCA	TCT GGA AAG	CAT CTC TAC	D AIG ICA
Glu Ser Ala Ile 7	ryr Ile Phe .	le ser A	sp mr Gry	AIG PIO PIR	e vai Giu Me	c TAT per-
430	440	4:	150	460	470	480
* *	* *	*	* *		* *	* *
GAA ATC CCC GAA A	ATT ATA CAC	TG ACT G	gaa gga agg	GAG CTC GTY	C ATT CCC TG	C CGG GTT
CTT TAG GGG CTT T	PAA TAT GTG	AC TGA C	CTT CCT TCC	CTC GAG CAG	G TAA GGG AC	G GCC CAA
Glu Ile Pro Glu I	lle Ile His I	met Thr G	siu Giy Arg	GIU Leu Va.	I IIE Pro Cy	s wid sars
490	500	5	510	520	530	540
* *	* *	*	* *		* *	* *
ACG TCA CCT AAC	ATC ACT GTT	ACT TTA A	aaa aag tti	CCA CTT GA	C ACT TTG AT	C CCT GAT
TGC AGT GGA TTG	TAG TGA CAA	IGA AAT T	TTT TTC AA	A GGT GAA CT	G TGA AAC TA	G GGA CTA
Thr Ser Pro Asn	Ile Thr Val	Inr Leu I	rys rys Pne	e pro Leu As	b um ren 11	.e FIU ASP>



Fig.13B.

		5	50			56	50			570				58	30		5	90			60	00
	*		*		*		*		*	*			*		*	*		*		*		*
GGA	AAA	CGC	AT.	A A'	rc 7	rgg (GAC	AGT	AGA	AAG	GG	СТ	TC I	ATC	ATA	TCA	TAA	GCA	ACG	TΑ	C A	A.A.
CCT	TTT	GCG	ΤA	T T	AG A	ACC (CTG	TCA	TCT	TTC	CC	G A	AG '	TAG	TAT	AGT	\mathbf{ATT}	CGT	TGC	ΑT	G T	ľΤ
Glv	Lvs	Ara	Il	e I	le 1	ero .	Asp	Ser	Arg	Lys	Gl	yР	he :	Ile	Ile	Ser	Asn	Ala	Thr	Ту	T L	ys>
2	2	5				•	-		_	_												
		6	10			6	20			630				64	40			650			6	60
	*	•	*		*		*		*	*			*		*	*		*		*		*
CAA	አ ጥ አ	ccc	: CT	MT C	י באדי	ACC.	ጥርንጥ	GAA	GCA	ACA	GI	CA	AT	GGG	CAT	TTG	TAT	AAG	ACA	. AA	C T	AΤ
CUAL	שמש	000	. C.	A G	2C 1	TYCE	מסמ	Cutut	CGT	TGT	CA	G I	TΑ	ccc	GTA	AAC	ATA	TTC	TGT	TT :	G A	TA
Glu	TIA	GI3	. T.s	21 C	en '	Thr	Cvs	Glu	Ala	Thr	٧a	al A	sn	Gly	His	Leu	Tyr	Lys	Thi	As	n T	yr>
GIU	716	GLY	ם י	.u 2	cu		Cys							-				-				
		-	70			6	80			690)			7	00			710			7	20
	*	Ì	*		*	_	*		*	*	-		*		*	*		*		*		*
כיויר	ACA	יבי	ף כים	3A C	'AA	ACC	TAA	ACA	ATC	ATA	. GZ	AT C	FTC	CAA	ATA	AGC	ACA	CCA	. CG	C C	CAG	TC
GAG	TYCT	י כיוויט	, GC	יתי כי	, 1	TGG	TTA	TGT	TAG	TAT	. C:	AT	CAG	GTT	TAT	TCG	TGT	GGI	GC	3 G	GT C	'AG
Ten	Thr	· Hic	: A	.a .	in.	Thr	Asn	Thr	Tle	$Il\epsilon$	2 A.	7 as	/al	Gln	Ile	Ser	Thr	Pro	Ar	3 P:	ro V	al>
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UALANI SEREN	י אַ אַ	י כב	7 TY	Cub (703	CTA	TYGA	GAA	CAC	GAG	3 T	TA .	ACA	TGA	CGA	TGG	TGA	GGG	AA :	СТ	TG :	rgc
Tare	T.O.	To	13 A.	~~ (2717	Hie	ጥትን	Len	Val	Lei	ıΑ	sn (Cvs	Thr	Ala	Thr	Thi	Pro	Le	u A	sn i	rhr>
ت وبد	 c.	. C	u 11	-9 \	J-1								-									
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TCT	CA	A GT	тт	AC '	TGG	ACC	TCA	ATC	GG	A CT	A C	TT	TAA	CIX	GT.	r TCC	TTX	A AG	G GI	'A C	GG	TTG
Arc	Va	l Gl	n M	et '	Thr	Trp	Ser	Tyr	Pro) As	рG	lu	Ile	Ası	o Gli	ı Sei	: Ası	n Se	r Hi	s A	lla .	Asn>
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ATA	TT	C TA	C A	GT	GTT	CTT	ACT	TA T	r ga	CAA	A A	ATG	CAG	AA	C AA	A GA	C AA	A GG	A C	T ?	TAT	ACT
TAT	AA 1	G AI	G I	CA	CAA	GAA	TG	ATA	A CT	G TI	T T	rac	GTC	TT	G TT	T CT	G TT	T CC	T G	AA A	ATA	TGA
Ile	e Ph	e Ty	r S	Ser	Val	Leu	Thi	c Ile	e As	p Ly	rs 1	Met	Gln	As	n Ly	s As	b FA	s Gl	y L	eu '	īyr	Thr>
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TG	T CO	T G	ra 2	4GG	AGT	GG	CC	A TC	A TT	C A	AA '	TCT	GTT	' AA	C AC	CTC	A GI	G CA	TA	ra '	TAT	GAT
AC.	A GC	'A C	T.	rcc	TCA	CCI	GG'	T AG	AA T	GT.	rr z	AGA -	CAA	Y TI	G TG	G AG	T CA	ניט טו	A T	AT.	MTA.	CTA
Cy	s Ar	g Va	al A	Arg	Ser	. GJ7	Pr	o Se	r Ph	e Ly	ys .	Ser	Va]	L As	n Th	r Se	r va	LL H3	s 1	те	TYL	Asp>
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AA	A G	CA G	GC (CCG	GGC	GA	G CC	C AA	Y A	T T	GT 	GAC	AAA	A AC	TI CA	C AC	A IC	3C CC	JA C	200	160	CCA
TT	T C	GT C	CG	GGC	CCG	CT	C GG	G TI	Y AC	SA A	CA	CTG	Tala	r re	A G	G TO	71. AC	کی نی)ز دπ ست	31 G		ALG.	GGT
Ly	s A	la G	ly	Pro	G13	/ Gl	u Pr	o Ly	rs Se	er C	ys	Asp	ьy	s TT	ır Hi	ls TI	m C	ys P	[O]	TO	Cys	Pro>
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ريز ر	A C	מא עם הדע פ	MA.	CIC	C.T.(- GG	G GC	יחי היי	ים ביי יז ביי	CUT O	'AG	AAC	GA	G A	AG G	GG GK	T T	TT G	GG '	TTC	CTC	TGG
7. T	ים בו	an c	1711	T.O.	ים. ד	יי ככ	v ⊂.	V P	ro s	er V	al	Phe	Le	u P	he P	ro P	ro L	ys P	ro	ys	Asp	Thr>
	-u F												_					_		_	_	



Fig.13C.

		1	16	j. I) .														
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CTC .	* >U\	ראווי ע	* m~c	* CGG	ארר ו					TGC		GTG			GTG	AGC	CAC	GAA	G.	ıC
GAG	TAC	TAG	AGG	GCC	TGG	GGA	CTC	CAG	TGT	ACG	CAC	CAC	CAC	CTG	CAC	TCG	GTG	CTT	CI	CG.
Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	Asp	Val	Ser	His	Glu	As	sp>
												118				L90			120	
	*	115	÷	*	11	6U *		*	.170		*	110	*	*		*		*		*
CCT	GAG	GTYC	AAG	אנית	AAC	TGG	TAC	GTG	GAC	GGC	GTG	GAG	GTG	CAT	TAA	GCC	AAG	ACA	A	4G
CCA	CTC	CAG	بكثيل	AAG	TTG	ACC	ATG	CAC	CTG	CCG	CAC	CTC	CAC	GTA	TTA	CGG	TTC	TGT	T	ľC
Pro	Glu	Val	Lys	Phe	Asn	Trp'	Tyr	Val	Asp	Gly	Val	Glu	Val	His	Asn	Ala	Lys	Thr	L	ys>
		12:	10		12	20			1230			12	40		1:	250			12	60
	*		*	*		*		*	*		*		*	*		*		*		*
CCG	CGG	GAG	GAG	CAG	TAC	AAC	AGC	ACG	TAC	CGT	GTG	GTC	AGC	GTC	CTC	ACC	GTC	CTG	C	AC
~~~	CCC	CUC	CUTY	CTC	አጥር	thut.	J.C.C.	TGC	ATG	GCA	CAC	CAG	TÇG	CAG	GAG	TGG	CAG	GAC	. G	16
Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	Val	vaı	Ser	vai	rea	TILL	vai	The C	Ln	15/
		12'	70		12	80		:	1290			13	-		1	310			13	
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CAG	GAC	TGG	CTG	TAA	GGC	AAG	GAG	TAC	AAG	TGC	AAG	GTC	TCC	AAC	AAA	, GCC	CIC		יה היה	race race
GTC	CTG	ACC	GAC	TTA	CCG Gly	TTC	CTC	ATG	TAG	CVS	LVS	Val	Ser	Asn	Lvs	Ala	Leu	Pro	. ∪ . A	la>
Gin	Asp	TIP	rea	ASII	GTĀ	Lys	Giu	-77-	2,5	0,10	-1-				-					
		13	30		1:	340			1350			13	60			370				80
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CCC	ATC	GAG	AAA	ACC	ATC TAG	TCC	AAA	GCC	AAA :	. GGG	CAG CTV	000		COM	CC	CTY	CAC	, IA	or G?	rgg
SSS SSS	TAG	CIC	TARE	166 Thr	Ile	Ser	LVS	Ala	LVS	Gly	Gln	Pro	Arg	Glu	ı Pro	Glr	ı Val	L Ty	r:	Thr>
FIO	110	GIU	L							_										
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CIG	CCC	CCA	7 J.C.C		CTA	CTC	CIG	TGC	TTY	TTO	GTC	CAC	TCC	GAC	TG	G AC	G GA	CA	G′	TTT
Leu	Pro	Pro	Ser	Arc	Asp	Glu	Lev	Thi	Lys	Asr	ı Glr	va:	l Se	r Let	ı Thi	r Cy	s Le	ı Va	.1 :	Lys>
													180			1490				500
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GGC	ጥጥ	TAT	י רר	' AGC	GAC	ATC	: GCC	GT	G GAG	TGC	GAC	AG	C AA'	r GG(	G CA	G CC	G GA	J AA	C:	AAC
CCG	מממ	2 አጥ2	4 66	TYY	CTG	TAG	CGC	CAC	CIX	CAC	CIX	TO	G TT	A CC	CGT	C GG	CCL	C 11	.G	1.10
Gly	Phe	э Туг	r Pro	Sex	: Asp	ıle	e Ala	ı Va	1 Gl	ı Tr	o Glu	ı Se	r As:	n Gl	y G1	n Pr	o Gl	u As	in .	Asn>
		7.5	:10		1	.520			1530	)		1	540			1550			1	560
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TAC	: AAC	ACC	C ACC	G CC	r ccc	GTC	CTY	GA	C TC	C GA	c GGK	TO	C TT	C TT	CCT	C TA	C AG	CAA	·G	CTC
አጥር	TALAL	יביאים יי	יבאדי ב	- GG	A CCC	CAC	GA	CI	g ag	G CIV	G CC	3 AG	g aa	G AA	G GA	G AI	G TC	1. D.	LC	فاهف
Tyr	Ly	s Th	r Th	r Pro	o Pro	Va:	l Le	ı As	p Se	r As	b GT	y se	r Pn	e Pn	e re	u Ty	T Se	יבר ביי	ŗs.	Leu>
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ACC	GTY	G GA	C AA	g Ag	CAGO	TG(	G CA	G CA	G GG	G AA	CGT	C TI	C TC	A TG	C TO	C GI	CA DY	KG C	T'A K'T	CTY
TGG	CA	CIN	G TT	C TO	G TCC	ACC	C GT	C GI	70 CC 70 CC 1	CTT	G CA	G AA ] ph	uG AG ne Se	rr AC ar C∨	AC S Se	er Va	12 12 11 Me	يد G ≥t H	is	Glu>
Thr	: Va	⊥ As	b rà	s se	ı arç	1.I.	الني با	נו פו	⊥ى ىى	y mo	ıı va	E1.			_ ~					



### Fig.13D.

1630 1640 1650 1660 1670

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GCT CTG CAC AAC CAC TAC ACG CAG AAG AGC CTC TCC CTG TCT CCG GGT AAA TGA

CGA GAC GTG TTG GTG ATG TGC GTC TTC TCG GAG AGG GAC AGA GGC CCA TTT ACT

Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys ***>



Fig.14A.

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ATG	GTC	AGC	TAC	TGG	GAC	ACC	GGG	GTC	CTG	CTG	TGC	GCG	CTG	CTC	AGC	TGT	CTG	CTT	CTC
TAC	CAG	TCG	ATG	ACC	CTG	TGG	CCC	CAG	GAC	GAC	ACG	CGC	GAC	GAG	TCG	ACA	GAC	GAA (	GAG
Met	Val	Ser	Tyr	Trp	Asp	Thr	Gly	Val	Leu	Leu	Cys	Ala	Leu	Leu	Ser	Cys	Leu	Leu :	Leu>
		7	0			08			90			10			1	.10			120
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ACA	GGA	TCT	AGT	TCC	GGA	GGT	AGA	CCT	TTC	GTA	GAG	ATG	TAC	AGT	GAA	ATC	CCC	GAA .	ATT
TGT	CCT	AGA	TCA	AGG	CCT	CCA	TCT	GGA	AAG	CAT	CTC	TAC	ATG	TCA	CTT	TAG	GGG	CTT	TAA
Thr	Gly	Ser	Ser	Ser	Gly	Gly	Arg	Pro	Phe	Val	Glu	Met	Tyr	Ser	Glu	Ile	Pro	Glu	Ile>
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		1:	30		3	40			150			16			-	L70	•		180
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ATA	CAC	ATG	ACT	GAA	GGA	AGG	GAG	CTC	GTC	ATT	CCC	TGC	CGG	GTT	ACG	TCA	CCT	AAC	ATC
TAT	GTG	TAC	TGA	CTT	CCT	TCC	CIC	GAG	CAG	TAA	GGG	ACG	GCC	CAA	TGC	AGT	GGA.	TTG	TAG
Ile	His	Met	Thr	Glu	Gly	Arg	Glu	Leu	Val	Ile	Pro	Cys	Arg	Val	Thr	Ser	Pro	Asn	Ile>
																			240
		1	90		2	200			210			2:	20			230 *		*	240
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ACT	GTT	ACT	$\mathbf{T}\mathbf{T}\mathbf{A}$	AAA	AAG	TTT	CCA	CTT	GAC	ACT	TTG	ATC	CCT	GAT	GGA	AAA	200	MATA	MAC
TGA	CAA	TGA	TAA	TTT	TTC	AAA	GGT	GAA	CTG	TGA	AAC	TAG	GGA	CTA	CCT	TIT	GCG	TAT	TAG
Thr	Val	Thr	Leu	Lys	Lys	Phe	Pro	Leu	Asp	Thr	Leu	lie	Pro	Asp	GIA	гÀг	Arg	TTG	Ile>
												2	00			200			300
		2	50			260			270		*	4	80 ★	*		290 · *		*	*
	*		*	*		*		*				3.00					ccc		
TGG	GAC	AGT	AGA	AAG	GGC	TTC	ATC	ATA	TCA	AAT.	GCA	ACG	TAC	MAA	COM	. MIM	CCC	CII	CIG
ACC	CTG	TCA	TCT	TTC	CCG	AAG	TAG	TAT	AGT	TTA	CGT	TGC mb~	ATG	Tara	CTI	TAI	CCC	Ten	T.eu>
Trp	Asp	Ser	Arg	Lys	GIY	Pne	ше	TIE	Ser	ASII	Ala	1111	TYL	цуз	GIU		وين		Leu>
		_				200			330			3	40			350			360
	-4.	3	10	*		320		*	330		*	٠.	*	*		*		*	*
	*	~					~~~					מים	AAC		Cut	מים	CAT	CGA	CAA
ACC	1G.T.	GAA	. GCA	. ACA	GIC	WAT	CCC	CTT	220	מתע	مكلا	ייכיי	TTG	ATA	GAG	TGT	GTA	GCT	GTT
11.00cm	ACA	CTI	212	up-	CAG	7.172	. CCC	Hie	Ten	ייים	LVS	Thr	Asn	TVY	Leu	Thr	His	Arq	Gln>
1111	Cys	GTU	. MIO	LILL	val	ASI.	. Gly	****		-1-	2			- 4				-	
		2	70			380			390	1		4	.00			410			420
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ACC		י אריצ	\ Aጥና	ነ ልጥጆ	GAT	GTC	CAA	ATA	AGC	: ACA	CCA	. CGC	CCA	GTC	AAA	TTA	CTI	AGA	GGC
TGG	TTA	TG	TAC	TAT	CTA	CAC	GTI	LAT '	TC	TGT	GGT	GCG	GGT	CAG	TT	raa 1	GAZ	TCT	CCG
Thr	Asn	Thi	~ Ile	≥ Ile	e Asp	Val	Gln	Ile	e Ser	Thr	Pro	Arg	Pro	Val	. Ly:	s Lev	ı Lev	Arg	Gly>
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		4	130			440			450	)		4	160			470			480
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CAT	AC3	CT	r GT	CIX	CAA C	TG:	r aci	GC.	r ac	AC:	r ccc	TT	J AAC	ACC	G AG	A GT	r cai	YEA F	ACC
GTA	TGA	A GA	A CAG	G GA	G TTA	AC2	A TGA	A CGA	TG	3 TG	A GGC	AA E	TTX	TG	CTC	T CA	A GT	r TAC	TGG
His	Thi	. Le	ı Va	l Le	ı Asr	Cy:	s Thi	c Ala	a Th	r Thi	r Pro	Le	u Ası	ı Thi	c Ar	g Vai	l Gl	n Met	: Thr>
		4	190			500			510			į	520			530			540
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TGC	AG:	AT 7	c cc	r GA	r GA	TA	r GA	CA	A AG	AA C	r TC	CA'	r GCC	AA:	IA :	A TT	C TA	C AG	r GTT
ACC	TC	YPA. A	G GG	A CT	A CT	LAT T	A CIX	GT	r TC	3 1°€	A AGO	. GΤ. - ***	A CG	יייע ב יייע ב	TA و	T AA	G AT	r Co	A CAA
Trr	Se:	r Ty:	r Pr	o As	p Gli	ı Il-	e Ası	b GTI	ı se	L AS	ıı se:	r HJ	s Al	a AS		e zn	- τλ		r Val>



20/58.

Fig.14B.

		Ιij	y. ١		J.														
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CTT ACT	TTA	GAC	AAA	ATG	CAG .	AAC .	AAA 	GAC	AAA	GGA	CTT	'I'A'.	)A 1	י אדי ראדי	re.r.	CGT.	CVTA	MCC	uc.p
GAA TGA	TAA	CTG	TTT	TAC	GTC	TTG	TTT	CTG	TIT	CCT	GAA	ATT	~ υω 47 π.	BA A	~,rc	Arm	Val	Ara	Ser>
Leu Thr	Ile	Asp	Lys	Met	Gin .	Asn	Lys	Asp	глг	GIŽ	reu	Ty.	L 1.	, <del>, , ,</del>	-ys	arg	٧٥٢	n g	DC1-
	61	0		6	20			630			6	40			6	50			660
*		*	*		*		*	*		*		*		*		*		*	*
GGA CCA	TCA	TTC	AAA	TCT	GTT	AAC	ACC	TCA	GTG	CAT	ATA	AT A	T G	AT.	AAA	GCA	GGC	CCG	GGC
CCT CCT	AGT	AAG	$T^{\prime}T^{\prime}T$	AGA	CAA	TTG	TGG	AGT	CAC	GTA	TAT	TA	A C	AT	$T_{\rm L}T_{\rm L}$	CGT	CCG	GGC	CCG
Gly Pro	Ser	Phe	Lys	Ser	Val	Asn	Thr	Ser	Val	His	$Il\epsilon$	YY:	r A	sp	Lys	Ala	Gly	Pro	Gly>
																710			720
	67			6	80 *		*	690		*		700 *		*		710		*	*
* GAG CCC		*	*	~.~		3. CM			TYCH C		~~		יר ר		GCA	CCT	GAA	CTC	CTG
GAG CCC CTC GGG	AAA	TCT	IGI.	CAC	AAA	ACI	CAC	ACA.	ACG	GGT	GG	C AC	ig e	GT	CGT	GGA	CTT	GAG	GAC
Glu Pro	Tare	Car	CVE	ASD	INS	Thr	His	Thr	Cys	Pro	Pro	o Cy	s F	ro	Ala	Pro	Glu	Leu	Leu>
GIU FIO	пуз	DCI	Cys	122					-										
	73	30		7	740			750			•	760			•	770			780
*		*	*		*		*	*		*		*		*	~~~	*	3.000	*	*
GGG GGA	CCG	TCA	GTC	TTC	CTC	TTC	CCC	CCA	AAA .	CCC	: AA	G GZP	AC A	ACC.	CIC	ATG	TING:	100	CGG CCC
CCC CCT	GGC	AGT	CAG	AAG	GAG	AAG	GGG	GG.T.	Tara	محور	, T.	- A-	י ט	Thr	Len	Met	Tle	Ser	Arg>
Gly Gly	Pro	Ser	Val	Pne	Leu	Pne	PIO	PLO	гЛS	FIC	, шұ	o na	, q		100				2
	7	90			800			810				820				830			840
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ACC CCT	GAG	GTC	ACA	TGC	GTG	GTG	GTG	GAC	GTC	AGC	CA	C G2	AA (	GAC	CCT	GAG	GTC	: AAG	TTC
TYCE CEA	כיונעי	CAG	ተርጥ	ACG	CAC	CAC	CAC	CTG	CAC	TCC	GT	G C	rr (	CTG	GGA	CTC	CAC	3 1.10	: AAG
Thr Pro	Glu	. Val	Thr	Cys	Val	Val	Val	Asp	val	. Sei	r Hi	s G.	iu 1	Asp	Pro	) GII	ı va.	L Lys	s Pne>
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שייני אַריר	ang	CAC	CTG	CCG	CAC	CTC	CAC	GTA	TTI	A CCK	3 TT	T D	GT '	TTC	GGC	GCC	CIC	CIC	3 GIC
Asn Trp	Tyr	Val	. Asp	Gly	. Val	Glu	. Val	His	: Ası	n Ala	a Ly	s T	hr :	Lys	Pro	Arg	g Gl	ı Glı	ı Gln>
								00/	_			040				950			960
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* TAC AAC	, acc	*	* • • • • • • • • • • • • • • • • • • •			s conv					C G:	rc c	TG	CAC	CAC	G GA	C TG	G CT	G AAT
אוועה האנוע	יייי יי	בי יווירביני	YPA :	GCZ	CAC	CAC	TC	G CAC	3 GA	G TG	G C	AG G	AC	GTG	GT	CL	G AC	C GA	CTTA
Tyr Asn	Ser	Th	r Tyi	c Arc	Val	. Val	Se:	r Vai	l Le	u Th	r Va	al I	eu	His	Gli	n As	p Tr	p Le	u Asn>
			-																
	9	970			980			99				1000		,		1010 *		*	1020
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GGC AAC	G GAC	G TA	C AA	GTG	CAAC	GIY	2 10	CAA	C AA	M CC	ic c	<b>7</b> C C	ACA TESE	CGC	. cc	C AI	GCI	CTI	T TGG
CCG TIV	CIX	CAT	G 1117	CAC	s TIV	c Va	s AG 1 Se	or As	n Iv	s Al	.a L	eu I	Pro	Ala	a Pr	o II	e Gl	u Ly	s Thr>
GIA DAS	5 (31)	u iy	ני אַ	s cy.	s υy.	5 Vu.													
	10	030		;	1040			105				1060				1070			1080
*		*		*	*		*		*				k		*	· ·		* ייה מרי	* *
ATC TC	CAA	A GC	C AA	A GG	G CA	G CC	c cc	A GA	A CC	CA CA	AG G	TG '	L'AC	AC(	CI	75 CC		יע יחב 17. אר	יכ הפפ
TAG AG	G TT	T CG	G TT	T CC	CGT	C GG	G GC	TO TE	11 GC	رات (د. 1. ور	lu U	al f	TVY TVY	Th.	عدی دید ۲.⊢	eu Pr	0 P:	ro Se	er Arg>
TIE Se	r Ly	s Al	а шу	S GI	y GT	ii PT	U AI	دی و.	E 1		V		- <u>,                                   </u>						_



Fig.14C.

		10	90		11	.00		1	.110			112	0		11	.30		1	140
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GA'	r GAC	CTG	ACC	AAG	AAC	CAG	GTC	AGC	CTG	ACC	TGC	CTG	GTC	AAA	GGC	TTC	TAT	CCC	AGC
CT	A CTY	GAC	TGG	TTC	TTG	GTC	CAG	TCG	GAC	TGG	ACG	GAC	CAG	$\mathbf{T}\mathbf{T}\mathbf{T}$	CCG	AAG	ATA	GGG	TCG
As	o Glu	Leu	Thr	Lvs	Asn	Gln	Val	Ser	Leu	Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser>
				-															
		13	.50		1:	L60		-	L170			118	30		1:	190		_	.200
	*		*			*		*			*		*	*		*		*	*
GA	C AT	GCC	GTG	GAG	TGG	GAG	AGC	AAT	GGG	CAG	CCG	GAG	AAC	AAC	TAC	AAG	ACC	ACG	CCT
CT	G TAG	G CGC	CAC	CTC	ACC	CTC	TCG	TTA	CCC	GTC	GGC	CTC	TTG	TTG	ATG	TTC	TGG	TGC	GGA
As	p Il	a Ala	a Val	. Glu	Trp	Glu	Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro>
	-																		
		1	210		1	220			1230			12	40			250		-	1260
	*		*	*		*		*			*		*			*		*	*
CC	C GT	G CT	G GAC	TCC	GAC	GGC	TCC	TTC	TTC	CTC	TAC	AGC	AAG	CTC	ACC	GTG	GAC	AAG	AGC
GC	G CA	C GA	CTC	AGG	CTG	CCG	AGG	AAG	AAG	GAG	ATG	TCG	TTC	GAG	TGG	CAC	CTG	TTC	TCG
Pr	o Va	l Le	u Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	. Asp	Lys	Ser>
		1:	270		1	280			1290				00			310			1320
	*		*	*		*		*			*			*		*		*	*
AG	G TG	G CA	G CAC	GGG	AAC	GTC	TTC	TCA	TGC	TCC	GTG	ATG	CAT	GAG	GCT	CTG	CAC	AAC	CAC
TC	C AC	C GT	GIY	ccc	TTG	CAG	AAG	AGT	ACG	AGG	CAC	TAC	GTA	CTC	CGA	GAC	GIG	TIG	GIG.
Ar	g Tr	p Gl	n Glr	ı Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	Met	His	Glu	Ala	. Lev	His	Asn	His>
		1	330		1	340			1350										
	*		*			*		*	*		*								
<b>T</b> ?	C AC	G CA	G AAG	G AGC	CTC	TCC	CTG	TCI	, CCC	GGI	' AAA	. TGA							
A.	G TO	C GI	C TT	CTCC	GAG	AGC	GAC	: AGA	GGC	CCA	TTI	ACT							
T	r Th	r Gl	n Ly:	s Sex	Lev	Sei	: Leu	s Sex	Pro	Gly	Lys	***	`>						



### Fig.15A.

		3	.0			20			30				40				50			6	50
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ATG (	GTC CAG	AGC	TAC	TGG	GAC . CTG	ACC TGG	CCC	CAG	GAC	GAC	ACC	GO	GC (	AC (	GAG	TCG	ACA	GAC	GA.	A G	AG
Met '	Val	Ser	Tyr	Trp	Asp	Thr	Gly	Val	Leu	Leu	Cy	s A	la I	Leu :	Leu	Ser	Cys	Leu	Le	u Le	eu>
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	*	•	70 *			80 *		*	90		*		100	J k	*	-	*		*	1.	*
ACA		TCT		TCC	GGA		AGA		TTC	GTA	GA	G A	TG '	rac	AGT	GAA	ATC	ccc	GA	A A	TT
TGT	CCT	AGA	TCA	AGG	CCT	CCA	TCT	GGA	AAG	CAT	CT	T T	'AC	ATG	TCA	CTT	TAG	GGG	CT	T T	AA
Thr	Gly	Ser	Ser	Ser	Gly	Gly	Arg	Pro	Phe	Val	Gl	u M	iet '	Tyr	Ser	Glu	Ile	Pro	Gl	u I	le>
		٦	2.0		1	.40			150				16	n			170			1	80
	*	1	30 *	*	1	*		*	*		*			*	*		*		*	_	*
ATA	CAC	ATG	ACT	GAA	GGA	AGG	GAG	CTC	GTC	ATT	CC	C T	rGC	CGG	GTT	ACG	TCA	CCI	' AA	C A	TC
TAT	GTG	TAC	TGA	CTT	CCT	TCC	CTC	GAG	CAG	TAA	GG	G A	ACG	GCC	CAA	TGC	AGT	GGZ	TI	GT	AG
Ile	His	Met	Thr	Glu	Gly	Arg	Glu	Leu	Val	Ile	Pr	0 0	ys .	Arg	Val	Thr	Ser	Pro	) As	n I	le>
		1	90			200			210				22	0			230			2	40
	*		*	*	•	*		*	*		*	k		*	*		*		*		*
ACT	GTT	ACT	TTA	AAA	AAG	TTT	CCA	CTT	GAC	ACI	TI	rg 2	ATC	CCT	GAT	GGA	AAA .	CG	C A	ra a	TC
TGA	CAA	TGA	LAA.	TTT	TTC	AAA	GGT	GAA	CTG	TGA	AA A	AC :	TAG	GGA	CTA	CCT	TTI	GC	3 T2	T TA	'AG
Thr	Val	Thr	Leu	Lys	Lys	Phe	Pro	Leu	Asp	Thr	: L€	eu .	ITe	Pro	Asp	GTĀ	гĀs	Ar	₹ 1.	re 1	rie>
		2	50		,	260			270	)			28	30			290			3	300
	*		*	*		*		*	*			*		*	*		*		*		*
TGG	GAC	AGI	AGA	AAG	GGC	TTC	ATC	ATA	TCA	L AA	r GC	CA .	ACG	TAC	AAA	GAA	ATA	A GG	G C'	TT (	CTG
ACC	CTG	TCF	TCI	TTC	CCG	AAG	TAG	TAT	AGI	TT	7 CC	GT '	TGC	ATG	TTT	CTI	AT ?	r co	C G	AA (	3AC
Trp	Asp	Ser	Arg	Lys	GIY	Pne	: lie	11€	e Ser	ASI	1 A.	ıa	TILL	TAT	ьys	GIE	1 114	= 31	ם ע	cu .	ueu>
		3	310			320			330	)			34	10			350			:	360
	*		*	*		*		*	1			*		*	*		*		*		*
ACC	TGI	GAZ	A GCZ	A ACA	GTC	LAA	GGG	CAT	TTY	FTA'	A.T	AG	ACA	AAC	TAT	CIX	CAC	A.CA	ישי כי עד. כ	GA. Y∩m	CAA CIVIT
TGG	ACA	CT	r CG	r TGT a Thr	CAG	TTF Acr	CCC	, GIA	AAA : T.e.	JATE 1 Pur	A T	TC NS	Thr	Asn	TVI	Lei	u Th	r Hi	a e	xa .	Gln>
THE	Cys	GI	i Mi	2 1111	. vaı	. ASI	1 (31)	, 117.			~	., .								_	
		;	370			380			39				4	00			410				420
	*		*			*	~ ~ 5	*		*		*	~~~	*	, CITY		* אותר		ל גידאר		4 *
ACC	: AAT	C AC	A ATY	C ATA	A GAT	GTO	CAA	ימיחים	א אנל ריידרייד	C AC	д С	CA.	GCG	GGT	CAC	. AA. TT	T AA	T G	AA 1	CT	CCG
Thr	Ası	i Th	r Il	e Ile	ASI	Va:	l Gl	n Il	e Se	r Th	r F	ro	Arg	Pro	Va.	L Ly	s Le	u Le	eu 2	Arg	Gly>
			430			440			45	0 *		*	4	60		ı.	470			*	480
C 7 ff	* 1. 7.01	m	m ~m	C CT	* ~ አአ!	* יביצות נו	ጥ አር	* ጥርታ	ጥ ልር		ייתי ר		יארע:	^ ; AA(	a AC	n GAG					ACC
CAT	AC:	A GA	A CA	G GA	GTT	A AC	A TG	A CG	A TG	G TO	AC	3GG	AAC	TT	G TG	CTC	T C	AA G	rr '	TAC	TGG
His	Th	r Le	u Va	l Le	u Ası	n Cy	s Th	r Al	a Th	ir Tr	ır I	Pro	Lev	ı Ası	n Th	r Ar	g Va	al G	ln :	Met	Thr>
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	*		490		*	500		*	53	-0 *		*	5	520 *		*	530	J ★		*	540 *
TGO		T TA		T GA	T GA	A.A.A	A AA	T AF	G AC		CT S	TCC	GT	A AG	G CG	A CO	GA A	TT G	AC	CAA	AGC
ACC	C TC	A A	G GG	A CT	A CT	T TI	T T	'A T'I	Y Y	CT CC	GA .	AGG	CA	r TC	C GC	T G	CT T	AA C	TG	GTT	TCG
Tr	p Se	r Ty	r Pi	o As	p Gl	u Ly	s As	n L)	s A	rg A	la:	Ser	Va.	l Ar	g Ar	g Au	rg I	le A	sp	Gln	Ser>



## Fig.15B.

		55			5	60			570			58	_		5	90			600
	*		*	*		*		*	*		*		*	*		*		*	*
																	AAC		
																	TTG		
ASN	ser	HIS	Ala	Asn	Ile	Phe	Tyr	Ser	Val	Leu	Thr	Ile	Asp	Lys	Met	Gln	Asn	Lys	Asp>
		61	. ^			20			C 3 0			ر م							
	*	0.1	*	*	ō	20		*	630		*	64	*		t	550 *		*	660 *
AAA	GGA	CTT	TAT	ACT	ጥርተ	CGT	ርጥል			ADD.		ፈንጥ		מממ	יני-אני		AAC		
																	TTG		
																	Asn		
			_		-	_		-		-									
		67	70		6	80			690			70	00		•	710			720
	*		*	*		*		*	*		*		*	*		*		*	*
																	ACT		
																	TGA		
Val	His	Ile	Tyr	Asp	Lys	Ala	Gly	Pro	Gly	Glu	Pro	Lys	Ser	Cys	Asp	Lys	Thr	His	Thr>
			3.0		_							_							
	*	/-	30 *	*	.,	40 *		*	750 *		*	76	50 *	_		770			780
سحد		CCG			CCA		~ ~ ~ ~			000		~~		<b>~</b>	mma	*	mass	*	*
																	TTC AAG		
																			Pro>
-2			03.5		2220	110	314	1000		GLy	وسي	110	OCT.	Val	FIIG	neu	FILE	210	PLO>
		7:	90		8	300			810			8:	20			830			840
	*		*	*		*		*	*		*		*	*		*		*	*
AAA	CCC	AAG	GAC	ACC	CTC	ATG	ATC	TCC	CGG	ACC	CCT	GAG	GTC	ACA	TGC	GTG	GTG	GTG	GAC
																	CAC		
Lys	Pro	Lys	Asp	Thr	Leu	Met	Ile	Ser	Arg	Thr	Pro	Glu	Val	Thr	Cys	Val	Val	Val	<qza< td=""></qza<>
		_																	
	*	8	50 *		{	360			870			8	80			890			900
Cux		~~~		*	- COM	*	~~~	*	*	* > 0	*	m2 C	*	*		*		*	*
																	GAG CTC		
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						0	V C.	77.0	1110			+1+	VUL	رإهم	GTĀ	Val	GIU	٧٠٠	HT2>
		9	10			920			930			9	40			950			960
	*		*	*		*		*	*		*		*	*		*		*	*
TAA	GCC	AAG	ACA	AAG	CCG	CGG	GAG	GAG	CAG	TAC	AAC	AGC	ACG	TAC	CGT	GTG	GTC	AGC	GTC
																			CAG
Asn	Ala	Lys	Thr	Lys	Pro	Arg	Glu	Glu	Gln	Tyr	Asn	Ser	Thr	Tyr	Arg	. Val	Val	Ser	Val>
		_																	
	*	9	70 *			980			990	)		10	00		1	.010			1020
Carro				*	~~	*		*	*		*	~~~	*	*		*		*	*
																			AAC
Leu	Thr	· Val	T.A.	Hic Hic	GIO	7.70	ACC	TAU	1"17 5 5 5 7	COU	r TAC	CIC	ATG	TARC	ACG	TIC	CAG	AGC	TTG Asn>
200		, , ,	. 100		9211	ASL	سيند د	neu	. ASI	ı Gıy	ับรู	GIL	TAT	בעניי	Cys	, Lys	val	. Sei	ASII>
		10	30		1	040			1050	)		10	060		٦	1070			1080
	*		*	*		*		*	,		*	_ `	*	*		*		*	*
AAA	GCC	CTC	CCA	GCC	ccc	ATC	GAG	AAA	ACC	YEA C	TCC	: AA	A GCC	: AAA	GGG	G CAC	CCC	CG	A GAA
TrTrT	' CGG	GAG	GGI	CGG	GGG	TAC	CIC	TTT	TGO	TAC	3 AGC	TT	r cga	TTT	2 000	GIY	GGG	GC'	r ctt
Lvs	Ala	Leu	Pro	Ala	Pro	I1e	e Glu	l Lys	Th	r Ile	e Ser	Lys	a Ala	Lys	G13	g Glr	ı Pro	Ar	g Glu>



## Fig.15C.

												112				130			140
	*		*	*		*		*	*		*		*	*		*		*	*
CCA	CAG	GTG	TAC	ACC	CTG	CCC	CCA	TCC	CGG	GAT	GAG	CTG	ACC	AAG	AAC	CAG	GTC	AGC	CTG
GGT	GTC	CAC	ATG	TGG	GAC	GGG	GGT	AGG	GCC	CTA	CTC	GAC	TGG	TTC	TTG	GTC	CAG	TCG	GAC
Pro	Gln	Val	Tvr	Thr	Leu	Pro	Pro	Ser	Ara	Asp	Glu	Leu	Thr	Lvs	Asn	Gln	Va1	Ser	Leu>
			- 4						3					-4 -			•		
		119	50		11	L60		:	1170			118	30		1:	190		1	1200
	*																		
ACC	TGC	CTG	GTC	AAA	GGC	TTC	TAT	CCC	AGC	GAC	ATC	GCC	GTG	GAG	TGG	GAG	AGC	TAA	GGG
TGG	ACG	GAC	CAG	TTT	CCG	AAG	ATA	GGG	TCG	CTG	TAG	CGG	CAC	CTC	ACC	CTC	TCG	TTA	CCC
Thr	Cys	Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Tro	Glu	Ser	Asn	G1y>
	_			-	_		-			_					-				-
		12:	10		1:	220			1230			124	40		1:	250		:	1260
	*												*	*		*		*	*
CAG	CCG	GAG	AAC	AAC	TAC	AAG	ACC	ACG	CCT	CCC	GTG	CTG	GAC	TCC	GAC	GGC	TCC	TTC	TTC
GTC	GGC	CTC	TTG	TTG	ATG	TTC	TGG	TGC	GGA	GGG	CAC	GAC	CTG	AGG	CTG	CCG	AGG	AAG	AAG
Gln	Pro	Glu	Asn	Asn	Tyr	Lvs	Thr	Thr	Pro	Pro	Va1	Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe>
					-	_							_		-	_			
		12'	70		1:	280			1290			13	00		1.	310			1320
	*		*	*												*		*	*
CTC	TAC	AGC	AAG	CTC	ACC	GTG	GAC	AAG	AGC	AGG	TGG	CAG	CAG	GGG	AAC	GTC	TTC	TCA	TGC
GAG	ATG	TCG	TTC	GAG	TGG	CAC	CTG	TTC	TCG	TCC	ACC	GTC	GTC	CCC	TIG	CAG	AAG	AGT	ACG
Leu	Tyr	Ser	Lys	Leu	Thr	Val	Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	·Val	Phe	Ser	Cys>
			_				_	_			_			_					_
		13	30						1350			13	60		1	370		•	1380
	*		*	*		*		*	*		*		*	*		*		*	*
TCC	GTG	ATG	CAT	GAG	GCT	CTG	CAC	AAC	CAC	TAC	ACG	CAG	AAG	AGC	CTC	TCC	CTG	TCT	CCG
AGG	CAC	TAC	GTA	CTC	CGA	GAC	GTG	TTG	GTG	ATG	TGC	GTC	TTC	TCG	GAG	AGG	GAC	AGA	GGC
Ser	Val	Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	Leu	Ser	Pro>
	*																		
GGT	AAA	TGA																	

CCA TTT ACT
Gly Lys ***>



# Fig.16A.

1.0	20		30	4	.0	50	60	
* *	* *	*	*		* *	*	* *	
ATG GTC AGC TAC	TGG GAC ACC	GGG GTC	CTG CTG	TGC GCG	CTG CTC	AGC TGT CTG	CTT CTC	
TAC CAG TCG ATG	ACC CTG TGG	CCC CAG	GAC GAC	ACG CGC	GAC GAG	TCG ACA GAC	GAA GAG	
Met Val Ser Tyr	Trp Asp Thr	Gly Val	Leu Leu	Cys Ala	Leu Leu	Ser Cys Leu	. Leu Leu>	
-								
70	80		90	10		110	120	
* *	* *	*	*	*	* *	*	* *	
ACA GGA TCT AGT	TCA GGT TCA	ATT AAA	AAA GAT	CCT GAA	CTG AGT	TTA AAA GG	: ACC CAG	
TGT CCT AGA TCA	AGT CCA AGT	TTT AAT	TTT CTA	GGA CTT	GAC TCA	AAT TIT CCC	The Clas	
Thr Gly Ser Ser	Ser Gly Ser	Lys Leu	Lys Asp	Pro Giu	Leu Ser	reg bys Gi	, IIII GIII>	
	140		150	1 4	50	170	180	
130	140 * *	*	*	*	* *	*	* *	
CAC ATC ATG CAA			CAT CTC	CAA TGC	AGG GGG	GAA GCA GC	CAT AAA	
GTG TAG TAC GTT	COT CCG GTC	TGT GAC	GTA GAG	GTT ACG	TCC CCC	CTT CGT CG	GTA TTT	
His Ile Met Gln	Ala Gly Gln	Thr Leu	His Leu	Gln Cys	Arg Gly	Glu Ala Al	a His Lys>	
110 110 1100 -111								
190	200		210	2:	20	230	240	
* *	* *	*	*	*	* *	*	* *	
TGG TCT TTG CCT	GAA ATG GTG	AGT AAG	GAA AGC	GAA AGG	CTG AGC	ATA ACT AA	A TCT GCC	
ACC AGA AAC GGA	CTT TAC CAC	TCA TTC	CTT TCG	CTT TCC	GAC TCG	TAT TGA TT	r AGA CGG	
Trp Ser Leu Pro	Glu Met Val	Ser Lys	Glu Ser	Glu Arg	Leu Ser	lle Thr Ly	s Ser Ala>	
	0.50		247	2	80	290	300	
250	260	*	270 *	*	.ou * *		* *	
* * TGT GGA AGA AAT					יייית אאכ	ACA GCT CA	a gca aac	
ACA CCT TCT TTA	CCG TOTT GTT	AAG ACC	TCA TGA	AAT TGG	AAC TTO	TGT CGA GT	T CGT TTG	
Cys Gly Arg Asn	Gly INS Gln	Phe Cvs	Ser Thr	Leu Thr	Leu Asr	Thr Ala Gl	n Ala Asn>	
0,0 00, 100	<u></u>	-						
310	320		330	3	340	350	360	
* *	* *	*	*	*		k *	* *	
CAC ACT GGC TTC	TAC AGC TGC	AAA TA	r CTA GC	r gta cci	r ACT TC	A AAG AAG AA	AG GAA ACA	
GTG TGA CCG AAG	ATG TCG ACG	TTT AT	A GAT CG	A CAT GGA	A TGA AG.	r fre fre f	CCTT TGT	
His Thr Gly Phe	Tyr Ser Cys	Lys Ty	r Leu Ala	a vai pro	o rnr se	t nas nas na	's GIG IIII>	
270	380		390	4	400	410	420	
370 * *	* *	*	*	*		* *	* *	
ርኔኔ ጥርጥ ርርኔ ልጥ <u>ር</u>	TAT ATA TT	r att ag	T GAT AC	A GGT AG	A CCT TT	C GTA GAG A	IG TAC AGT	
CTT AGA CGT TAG	ATA TAT AA	A TAA TC	A CTA TG	T CCA TC	T GGA AA	G CAT CTC T	AC ATG TCA	
Glu Ser Ala Ile	Tyr Ile Phe	e Ile Se	r Asp Th	r Gly Ar	g Pro Ph	e Val Glu M	et Tyr Ser>	>
430	440		450		460	470 * *	480 * *	
* *	* *	*	*	*	*			
GAA ATC CCC GAA	A ATT ATA CA	C ATG AC	T GAA GG	A AGG GA!	אם משמב עש היה משמב עש	C ATT CCC T	CC CCC CAA	
CTT TAG GGG CTT Glu Ile Pro Glu	r TAA TAT GT	G TAC TO	m Glu Gl	v Ara GI	n Ten Va	d Ile Pro C	vs Arg Val:	>
GIU IIE Pro GI	1 TIG ITG HI	s Met II.	T GTA GT	.,y Gr			<u>_</u>	
490	500		510		520	530	540	
* *	* *	*	*	*	*	* *	* *	
ACG TCA CCT AAG	C ATC ACT GT	T ACT T	AAA AS	G TTT CC	CA CTT GA	AC ACT TTG 2	TC CCT GAT	
TGC AGT GGA TT	G TAG TGA CA	A TGA A	TT TT T	rc aaa gg	T GAA C	rg tga aac :	rag gga cta	7
Thr Ser Pro As	n Ile Thr Va	1 Thr Le	eu Lys Ly	ys Phe Pr	co Leu As	sp Thr Leu :	ile Pro Asp	<b>!&gt;</b>



## Fig.16B.

	•				
550	560	570	580	590	600
* * *	* *	* *	* *	* *	* *
GGA AAA CGC ATA AT	TGG GAC AGT	AGA AAG GG	C TTC ATC ATA	ACT TO COT TYC	. TWC WWW
CCT TTT GCG TAT TAG Gly Lys Arg Ile Ile	G ACC CTG TCA	Arm Type Gli	we she the the	Ser Asn Ala Thr	Tvr Lvs>
GIY LYS ATG IIE II	e TIP ASP SEL	AIG DAS GI	y life life life		-1
610	620	630	640	650	660
* *	* *	* *	* *	* *	* *
GAA ATA GGG CTT CT	G ACC TGT GAA	GCA ACA GI	C AAT GGG CAT	TTG TAT AAG ACA	A AAC TAT
CTT TAT CCC GAA GA	C TGG ACA CTT	CGT TGT CA	G TTA CCC GTA	AAC ATA TTC TGT	TTG ATA
Glu Ile Gly Leu Le	u Thr Cys Glu	Ala Thr Va	l Asn Gly His	Leu Tyr Lys Thi	r Asn Tyr>
<b>CD</b> 0	600	690	700	710	720
670 * *	680 * *	* *	* *	* *	* *
CTC ACA CAT CGA CA		ATC ATA G	AT GTC CAA ATA	. AGC ACA CCA CG	C CCA GTC
GAG TGT GTA GCT GT	T TGG TTA TGT	TAG TAT C	ra cag gtt tat	TCG TGT GGT GC	G GGT CAG
Leu Thr His Arg Gl	n Thr Asn Thr	Ile Ile A	sp Val Gln Ile	Ser Thr Pro Ar	g Pro Val>
					780
730	740	750 * *	760 * *	770 * *	* *
* * AAA TTA CTT AGA GO	* *			PACC ACT CCC TT	G AAC ACG
TTT AAT GAA TCT CO	SC CAT ACT CIT	CAG GAG T	TA ACA TGA CGA	A TGG TGA GGG AA	C TTG TGC
Lys Leu Leu Arg G	ly His Thr Lev	1 Val Leu A	sn Cys Thr Ala	a Thr Thr Pro Le	eu Asn Thr>
<b>5</b> ,5 <b>304 504</b> 123 0.					
790	800	810	820	830 * *	840 * *
* *	* *	* *	* * * * * * * * * * * * * * * * * * * *		
AGA GTT CAA ATG A TCT CAA GTT TAC T	CC TGG AGT TA	C CCT GAT G	יתית ביתית תאבע אאן תית ביתית מיתית האו	C TTG CGA AGG CA	AT TCC GCT
Arg Val Gln Met T	GG ACC TCA AT hr Tro Ser Tv	r Pro Asp G	du Ivs Asn Lv	s Asn Ala Ser Va	al Arg Arg>
Arg var din net i	in iip ber ij				
850	860	870	880	890	900
* *	* *	* *	* *	* *	* *
CGA ATT GAC CAA A	GC AAT TCC CA	T GCC AAC A	ATA TTO TAC AG	T GIT CIT ACT A	AN CAC WAY
GCT TAA CTG GTT T Arg Ile Asp Gln S	CG TTA AGG G1	A CGG TIG :	MY AAG AIG IC	er Val Leu Thr I	le Asp Lys>
Arg lie Asp Gin S	ser Asn Ser Ar	.s Ald All .	110 110 11		
910	, 920	930	940	950	960
* *	* *	* *	* *	* *	* *
ATG CAG AAC AAA C	GAC AAA GGA C	TAT ACT	TGT CGT GTA AC	G AGT GGA CCA 1	CA TIC AAA
TAC GTC TTG TTT C Met Gln Asn Lys A	CTG TTT CCT G	A ATA TGA	ACA GCA CAT TO	ca Ser Gly Pro S	Gr Phe Lvs>
Met Gin Asn Lys A	Wab raa gia re	ed Tyr Tir	cys arg var a	.9 001 01, 110 1	.02 -1112 -11
970	980	990	1000	1010	1020
* *	* *	* *	* *	* *	* *
TCT GTT AAC ACC '	TCA GTG CAT A	TAT GAT	AAA GCA GGC C	CG GGC GAG CCC A	AAA TCT TGT
AGA CAA TTG TGG .	AGT CAC GTA T	AT ATA CTA	TTT CGT CCG G	GC CCG CTC GGG 1	ITT AGA ACA
Ser Val Asn Thr	Ser Val His I	ie Tyr Asp	TAR WIG GIA B	TO GTA GIM NEO 1	nas ser cass
1030	1040	1050	1060	1070	1080
* *	* *	* *	* *	* *	* *
GAC AAA ACT CAC	ACA TGC CCA C	CG TGC CCA	GCA CCT GAA C	TC CTG GGG GGA	CCG TCA GTC
CTG TTT TGA GTG	TGT ACG GGT G	GC ACG GGT	CGT GGA CTT G	AG GAC CCC CCT	GGC AGT CAG
Asp Lys Thr His	Thr Cys Pro P	ro Cys Pro	Ala Pro Glu I	eu Leu Gly Gly	rro Ser Val>



# Fig.16C.

		109	n		11	nn		1	110			1	120	)		11	30		1	140	)
	*	100	*	*		*		*	*		*		*		*		*		*		*
		mm-0	ccc		7 × 7					حبلت	באהע	יי על	γ η	מרכי (	TGG	ACC	درس	GAG	GTC	AC	A
TIC	CIC	TIC	GGG	CCA	AAA	CCC .	MMG '	omc	MCC.	CAC	mac	יייי	10 7	ica i	300 300	TYCC:	GGA	CUC	CAG	TYG!	T
AAG	GAG	AAG	GGG	- (1,5)	.1.1.1.	فافاف	110	C1G	W	LONG	Mot	T1	io	300 ·	Ara	mux.	Pro	Glu	Val	July.	- r>
Phe	Leu	Phe	Pro	Pro	Lys	Pro	Lys	Asp	TILL	Leu	Mec		Le S	ser .	AT 9	T11T	FIO	GIU	٧٠٠		
														_							_
		115	50		11	.60		1	.170			]	1180			11	.90		*	120	*
	*		*	*		*		*	*		*			*	*		*				
TGC	GTG	GTG	GTG	GAC	GTG	AGC	CAC	GAA	GAC	CCT	GAG	G.	IC I	AAG	TTC	AAC	TGG	TAC	GTG	GA	.C
ACG	CAC	CAC	CAC	CTG	CAC	TCG	GTG	CTT	CTG	GGA	CTC	: C2	AG :	TTC	AAG	TTG	ACC	ATG	CAC	CT	G
Cys	Val	Val	Val	Asp	Va1	Ser	His	Glu	Asp	Pro	Glu	ı Va	al 1	Lys	Phe	Asn	Trp	Tyr	Val	As	<b>p&gt;</b>
		12:	10		12	220		:	1230				124	0		1:	250			126	0
	*		*	*		*		*	*		*			*	*		*		*		*
GGC	GTG	GAG	GTG	САТ	ТАА	GCC	AAG	ACA	AAG	CCG	CGG	3 G	AG (	GAG	CAG	TAC	AAC	AGC	ACG	TA	rC
CCG	CAC	CUC	CAC	CILY	עוטעי	rag	كالملا	TET	TTC	GGC	GCC	c	TC	CTC	GTC	ATG	TTG	TCG	TGC	Αī	G
Clar	Tra T	Clu	Val	Uic.	Acn	Δla	TAZE	Thr	Lvs	Pro	Arc	r G	lu	Glu	G1n	Tyr	Asn	Ser	Thr	· Tz	r>
GTĀ	var	GIU	val	nis	WOIT	Mid	ny a	1114	232		:	, -								_	
			<b>~</b> ^		٠,	200			1290				130	0		1	310			132	20
		12	70 *	*	1.	280 *		*	123U *		*			*	*	_	*		*		*
	*						ama			030		~ m	~~			ccc	אמכ	CAC	ጥልር	- A:	AC .
CGT	GTG	GTC	AGC	GTC	CTC	ACC	GIC	CIG	CAC	CAC	GA	~ 1	.00	CIG	WW.	000	mmo		אחע	7 thr	JC
GCA	CAC	CAG	TCG	CAG	GAG	TGG	CAG	GAC	GHG	GIC	CI	ہر نی		GAL	1.174	71.			W1/	3 I.	
Arg	Val	Va1	Ser	Va1	Leu	Thr	Val	Leu	. His	GLr	ı As	b ,1	.rp	Leu	Asn	GIY	гуy	GIU	. TY	. 10	y 5 >
																_				47	00
		13	30		1	340			1350				136				.370		.4.	13	
	*		*	*		*		*			*			*	*		*		*		*
TGC	AAG	GTC	TCC	AAC	AAA	GCC	CTC	CCZ	GCC	ca	TA	C	3AG	AAA	ACC	ATC	TCC	: AA	GC(	CA	AA
ACG	אוויים	CAC	AGC	יארים ב	لململة	CGG	GAG	GGT	CGG	GGG	TA	GC	CTC	TTT	TGG	TAG	AGC	TT	CG	3 T	TT
Cvs	Lvs	Va]	Ser	Asr	Lys	Ala	Leu	Pro	Ala	Pro	o I1	e (	31u	Lys	Thr	Ile	e Sei	Ly:	Al.	a L	ys>
	-				-			•													
		13	390		נ	400			1410	)			14:	20		1	L430			14	40
	*		*		•	*		*			*			*	*		*		*		*
CATC.	ב רב	; CC	CG2	GAZ	CC	CAG	GTO	TA	acc	CT	G CC	c (	CCA	TCC	CGG	GA.	r ga	G CTY	G AC	C A	AG
CCC	י כיווע	י ממי	3 GC:	مان راند	י ככי	י פחיכ	CAC	' ATY	i TG	GA	C GG	3G (	GGT	AGG	GCC	CT	A CT	CGA	C TG	G T	TC
CCC	. 010	. De-	o Arg	~ (21)	. Dr	. G1-	. Val	The	ר יויים יי	r Tæ	u Pr	ro :	Pro	Ser	Arc	ı Ası	o G1	u Le	u Th	rI	ys>
GT7	(411	I FI	ى مىدر	3 61	* ***			,.				_			_						
		-	450			1460			147	0			14	80			1490			15	500
	*	Τ.	450 *		*	*		*		*	,	*		*		*	*		*		*
		~ ~-	C AG				- CIEV						ጥልጥ	, ,,,	· AG	45 °	C AT	C GC	C G	rg (	GAG
AA.	CA	3 G'11	C AGG	C CI	G AC	1160	- C10	2 GI		m cc	C X	7 C	אַתוּשׁע		י איניי	2 CW	מיד בי	G CG	e c	ACT (	CTC
TT	3 GT	C CA	G TO	G GA	C TG	G ACC	Aنی نے ۔	J CA	3 7-1	T. CC	וא ט. מי	ho ho	The real	D~	2 10	~ 7c	5 IA	0 CC	a W	1 (	3111>
Ası	n Gl:	n Va	l Se	r Le	u Th	r Cy	s Le	u va	тгъ	5 61	.y P	ne.	TAT	PIC	) <u>5</u>	LAS	בי ע	.e .a.	.a. v		J.L.
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		1	510			1520			153			_	13	40 *		*	1000		*		*
	*		*		*	*		*	_	*		*			~ ~-					7.C	
TG	g ga	G AG	C AA	T GG	G CA	G CC	G GA	G AA	C AA	C T	AC A	AG	ACC	AC	J CC	1, CC	:U G1	C.	G G	AC 	1CC
AC	C CT	C TC	G TT	'A CC	CGT	C GG	CCI	C TI	G T	G A	rg T	"I'C	TGO	i TG	U GG	A GO	2.2 تات	AC GZ	RC C	فاذ	AUG
Tr	p G1	u Se	r As	n Gl	y G1	n Pr	o G1	u As	n As	n T	yr L	ys	Thi	r Th	r Pr	o Pr	co Va	al Le	eu A	gz	ser>
																		_			co
		1	.570			1580			159				16	600			161				.620
	*		*		*	*		*		*		*		*		*		*	*		*
GA	C GC	C TO	C TI	rc m	מכ כיז	C TA	C AC	C A	AG C	IC A	CC G	TG	GA(	C AA	G AC	C A	GG I	GG C	AG C	AG	GGG
CT	KG CC	G AC	G AZ	G AZ	AG GA	G AT	G TO	G T	rc G	AG T	GG (	CAC	CIV	G TI	C TO	CG TY	CC A	CC G	TC C	TC	CCC
As	p Gl	y Se	er Ph	ne Pl	ne Le	eu Ty	r Se	er L	ys L	eu T	hr V	/al	As	p Ly	rs Se	er A	rg T	rp G	ln (	iln	Gly>



Fig. 16D.

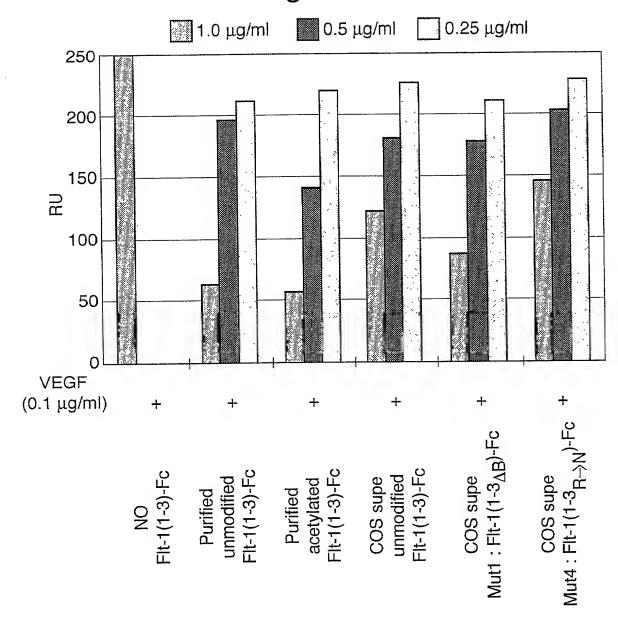
1630 1640 1650 1660 1670 1680

1690 1700

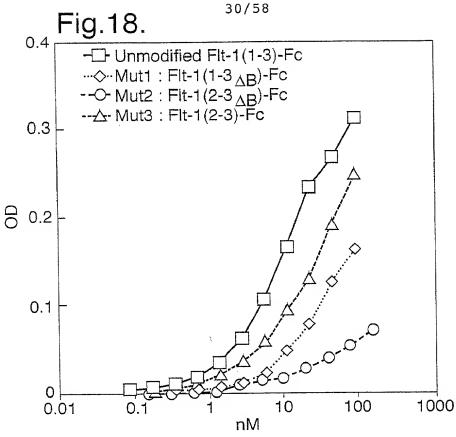
CTC TCC CTG TCT CCG GGT AAA TGA GAG AGG GAC AGA GGC CCA TTT ACT Leu Ser Leu Ser Pro Gly Lys ***>

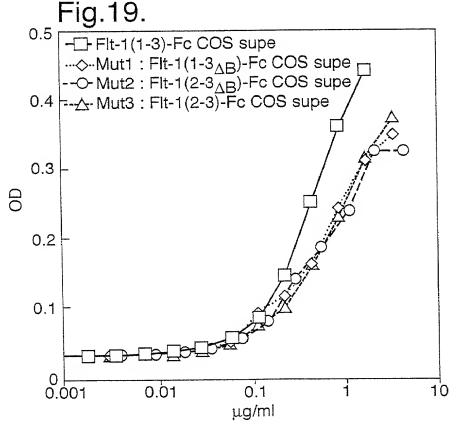


Fig.17.









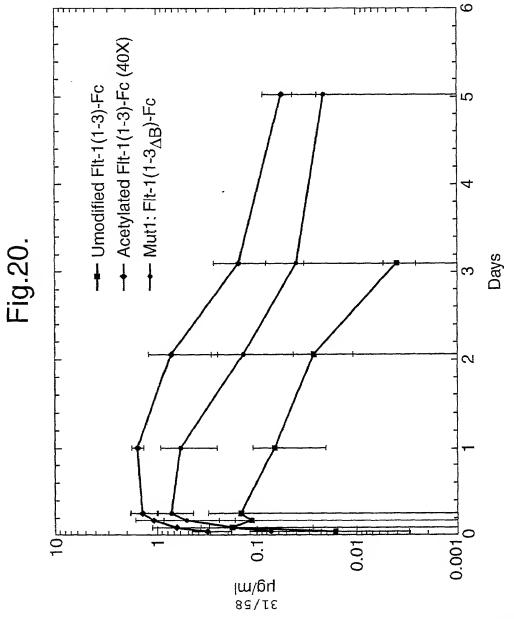






Fig.	21A.			>EcoRI	_site		
10	20	30	40	50	60	70	80
AAGCTTGGGCTGCAG		<del>-</del> -		- 1			
TTCGAACCCGACGTC	CAGCTAGCT	GAGATCTCCT	AGCTAGGGGC	CCGCTCGAGC	TTAAGCGTTG	GTGGTACCAG	ICGATG
						M V 1	S Y>
						Ţ	4 >
					>BspEI_bri	dge	
90	100	110	120	130	140	150	160
TGGGACACCGGGGTC							
ACCCTGTGGCCCCAG	GACGACACG					CTCCATCTGG	AAAGCA
WDTGV	L L C		S C L I	LTG	S S>		
	· · · · · · · · · · · · · · · · · · ·	FLT1 SS_	····			G>	
						>	
						G R P	F V>
							31
170				210		230	240
AGAGATGTACAGTG							
TCTCTACATGTCACT					GCAGTAAGGG VIP		GCAGIG T S> 57
			HFLT1 D2_				>
			200	200	300	310	320
250 CTAACATCACTGTTA	260 		280 צדיניאראראראינייני	290 aprocotgaty			
GATTGTAGTGACAA							
P N I T V	T L K	K F P :	LDTL	I P D	GKRI	IWD	S R>
			HFLT1 D2				84.
			REGIT DZ			<u>, ,</u>	
330	340	350	360	370	380	390	400
AAGGGCTTCATCAT							
TTCCCGAAGTAGTA	PAGTTTACGT	TGCATGTTT	CTTTATCCCG	AAGACTGGAC	ACTICGTIGIY	CAGTTACCCG	PAAACAT 1 1 V
KGFII	s n A	TYK	K T G.	ь в т с	E A T	V IV G I	11
			HFLT1 D2				>
410	420		440			470	
TAAGACAAACTATC ATTCTGTTTGATAG							
K T N Y							
				>			<u></u> ~.
				V V :	LSPS	H G I	E L>
					ניסיני עיז	D3	



Fig.21B.

, ,;	j. — · — ·						
490	500	510	520	530	540	550	560
CTGTTGGAGAAA							
SACAACCTCTTT							
SVGEF	CLVL	NCTA	RTE	L N V	G I D :	F N W E	
			1 11111 121 122				16
			-HETKI D2				
570	E 0 0	590	600	610	620	630	640
TCTTCGAAGCATO							
agaagettegtac							
S S K H							
	~						1:
			_HFLK1 D3				
650						710	
CACCTTAACTATA		· · ·					
GTGGAATTGATA'							
TLTI	D G V 1	RSD	QGГ	YTC	A A S S	G r W	
			נופידע ביי				217
							·
		>Srf_Br	ridge_				
		1					• • •
730	740	750	760	770	780	790	800
		_	G P G> > D	к т н	T C P	P C P A	. P E>
				<del></del>	FCΔCl(A	7)	
	820						
CTCCTGGGGGGA(GAGGACCCCCCTY							
GAGGACCCCCCT						R T P	
9 9 9	r s v r	БГГ			n 1 5	1 1 1	2
			FCAC1(A)				
890	900	910	920	930	940	950	960
ATGCGTGGTGGT	GGACGTGAGCC <i>I</i>	ACGAAGACCC	IGAGGTCAAG	TTCAACTGGT	ACGTGGACGG	CGTGGAGGTG	CATAATO
TACGCACCACCA	CCTGCACTCGG!	IGCTTCTGGG	ACTCCAGTTC	AAGTIGACCA	TGCACCTGCC	GCACCTCCAC	GTATTAC
c v v v	D V S I	H E D P	E A K	F N W	YVDG	V E V	H N>
							297
			FC∆C1 (A)				
			1000	1010	1000	1000	1040
970						1030	
CCAAGACAAAGC							
A K T K							
22 K 2 K		× 7 74			· +	۷ ۱۱ س	ر بر 32
			FCAC1(A)				



### Fig.21C.

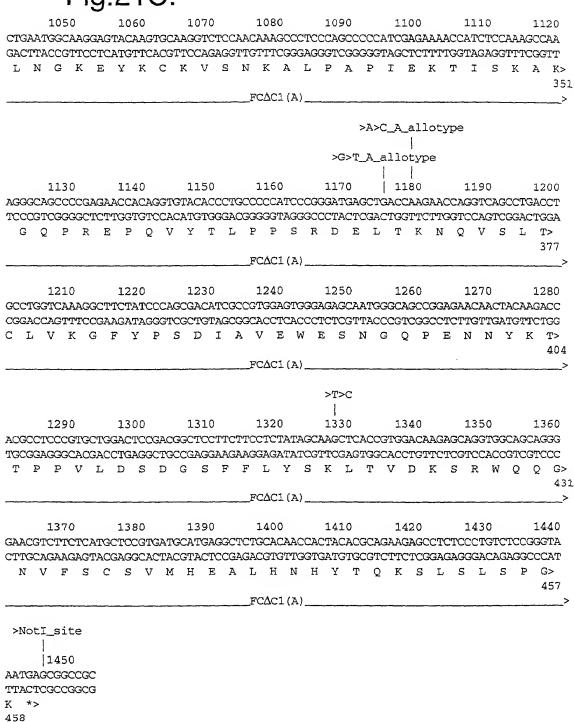




Fig.22A.		>EcoRI_	site		
10 20 30	40	50	60	70	80
AAGCTTGGGCTGCAGGTCGATCGACTCTAGAGGAT	CGATCCCC	GGGCGAGCTCGA	ATTCGCAAC	CACCATGGTCA	GCTAC
TTCGAACCCGACGTCCAGCTAGCTGAGATCTCCTA	GCTAGGGG	CCCGCTCGAGCT	TAAGCGTTG		
				,	S Y>
				1	4 >
		>	BspEI_bri	dge	
00 100 110	100	120	140	150	1.00
90 100 110 TGGGACACCGGGGTCCTGCTGTGCGCGCTGCTCAC		130 TTCTCACAGGAT	140   CTAGTTCCG		
ACCTGTGGCCCAGGACGACGCGCGACGAGT					
WDTGVLLCALLS	C L	L L T G	S S>		
FLT1 SIGNAL SEQU	JENCE		>	<b>6</b>	
			S	G> >	
				G R P	F V>
					31
					>
170 180 190	200	210	220	230	240
AGAGATGTACAGTGAAATCCCCGAAATTATACACA		<del>-</del>			
TCTCTACATGTCACTTTAGGGGCTTTAATATGTGG E M Y S E I P E I I H	M T E	GREL		C R V I	
0.00	000	000	222	25.0	200
250 260 270 CTAACATCACTGTTACTTTAAAAAAGTTTCCACT	280 1932 C 2 C 1991 1971	290 YZZMYYYYYYZZMYZY	300 זימיםם מממני	310 ביז מינייזיני ביני מיני	320
GATTGTAGTGACAATGAAATTTTTTCAAAGGTGA					
PNITVTLKKFPL	D T I	IPDG	KRI	IWD	S R>
					84
FLT	l IG DOMA	IN 2			>
330 340 350	360	370	380	390	400
AAGGGCTTCATCATATCAAATGCAACGTACAAAG					
TTCCCGAAGTAGTATAGTTTACGTTGCATGTTTC	TTATCCCG	SAAGACTGGACAC	TTCGTTGTC	AGTTACCCGT	AAACAT
KGFIISNATYKI	E I G	L L T C	E A T	A M G H	
THE CO.	. TO DOM	TNI O			111
FLT	I IG DOMA	TIN 2	·····		
410 420 430 TAAGACAAACTATCTCACACATCGACAAACCAAT					
ATTCTGTTTGATAGAGTGTGTAGCTGTTTGGTTA			CAACGGGTCC	TTCAGCGACC!	ICGACG
K T N Y L T H R Q T N					
FLT1 IG DOMAIN 2			T, D P	KSL	E L>
		- V D	I I		137
		VEGFI	R3 (FLT4)	IG DOMAIN	3>



Fig.22B.

9							
490			520			550	
GGTAGGGGAGAAG(	TGGTCCTCAA	CTGCACCGTG	TGGGCTGAC	TTTAACTCAC	GTGTCACCT	rtgactggga(	CTACCCA
CCATCCCCTCTTCC	ACCAGGAGTT	GACGTGGCAC	ACCCGACTO	CAAATTGAGTY	CACAGTGGA	AACTGACCCTY	GATGGGT
V G E K	LVLN	CTV	W A E	F N S	G V T	F D W D	
							164
		VEGFR3 (	FLT4) IG	DOMAIN 3_			>
				64.0	60.0	620	640
570					620	630	
GGAAGCAGGCAGAG	CGGGGTAAG1	rgggTgcccgi	AGCGACGCT(	CCAACAGAC		CACACCAGCA	A CCA CTCAC
CCTTCGTCCGTCTC				SQQT			AGGACIG I L T>
G K Q A E	RGK	WVPI		2 2 2 1	11 1 11	<b>1</b> 5 5	19
		7 MPC ED 3	(PI.TA) TG	DOMAIN 3_			>
		VEGFR3	(PDI#) IG	D0121211			
650	660	670	680	690	700	710	720
DATCCACAACGTCA	പ്രവേശനമുന്നു. സ്ഥാമനമായ	TOTGGGCTCG'	PATGTGTGC.	AAGGCCAACA	ACGGCATCCA	.GCGATTTCGG	GAGAGCA
TAGGTGTTGCAGT	~GGTCGTGCTY	GACCCGAGC	ATACACACG	TTCCGGTTGT	TGCCGTAGGT	CGCTAAAGCC	CTCTCGT
I H N V	S O H D	L G S	Y V C	K A N	N G I Q	RFR	E S>
± 11 11 1	•						217
		VEGFR3	(FLT4) IG	DOMAIN 3_			>
730	740	<b>7</b> 50	760	770	780	790	800
CGAGGTCATTGTG	CATGAAAATG	GCCCGGGCGA	CAAAACTCA	CACATGCCCA	CCGTGCCCAC	CACCTGAACT	CCTGGGG
GCTCCAGTAACAC	ന്നു വസ്ഥാസ് വ	محححدم المحتوانية	ᠸᠬᠬᡎᠬᠬᢑᡓᠺᢋ	GTGTACGGGI	GGCACGGGTC	GTGGACTTG	AGGACCCC
		000000000	022220				
r E V I V							
VEGFR3 (FLT	-	~					
	'	G P G>					
	<del>-</del>		tem II	TCP	РСР	APEI	L L G>
		1.			1 0 2		244
				FCAC1 ·	- A ALLOTY	PE	
810	820	830	840	850	860	870	880
GGACCGTCAGTCT	YCTYCTTYCCCC	CCAAAACCCA	AGGACACC	TCATGATCTY	CCGGACCCC'	IGAGGTCACA'	TGCGTGGT
CTGGCAGTCAGA	GGAGAAGGGG	GGTTTTGGGT	TCCTGTGG	SAGTACTAGA(	GGCCTGGGG	ACTCCAGTGT:	ACGCACCA
G P S V I		P K P	K D T	L M I	S R T P		CVV
							2
		FCΔ0	C1 - A AL	LOTYPE			
							0.50
890	900	910	920				
GTGGACGTGAGC	CACGAAGACCC	CTGAGGTCAA(	STTCAACTG	GTACGTGGAC	GCGTGGAGG	TGCATAAIGC	CAAGACAA
CCACCTGCACTCG	TGCTTCTGG(	FACTCCAGTT	CAAGTTGAC	CATGCACCTG	CCGCACCTCC	ACGTATTACG	GTICIGII
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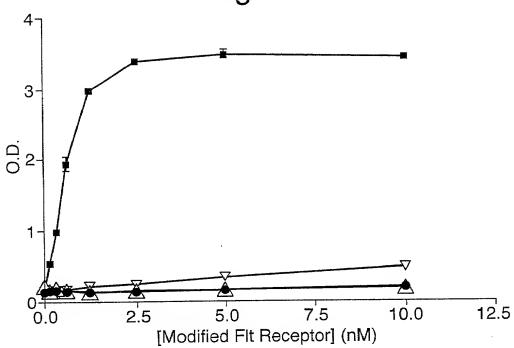
# Fig.22C.

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- Flt1D2Flk1D3.FcdeltaC1(a)
- △Flt1D2VEGFR3D3.FcdeltaC1(a)
- ♥ TIE2-Fc
- Flt1(1-3)-Fc



Fig.24A.

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Fig.24B.

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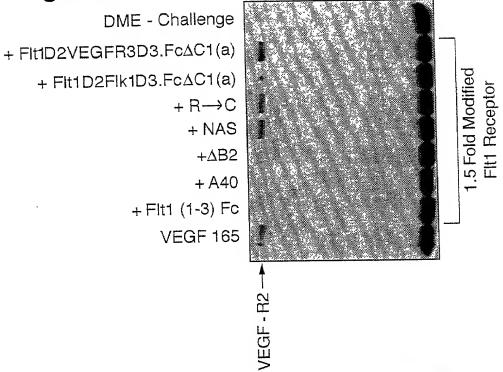


Fig.24C.

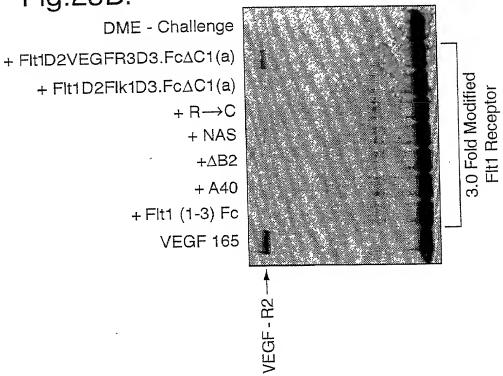
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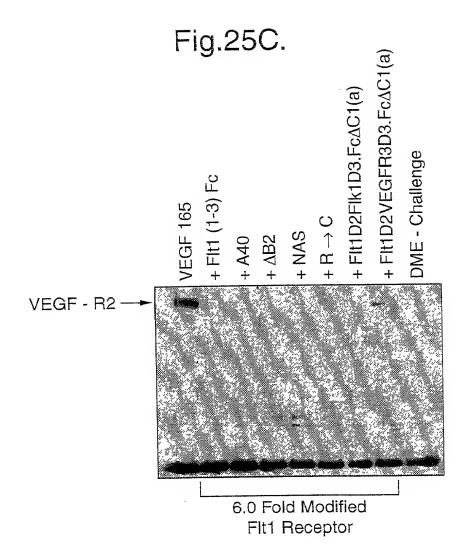
### Fig.25A.



## Fig.25B.

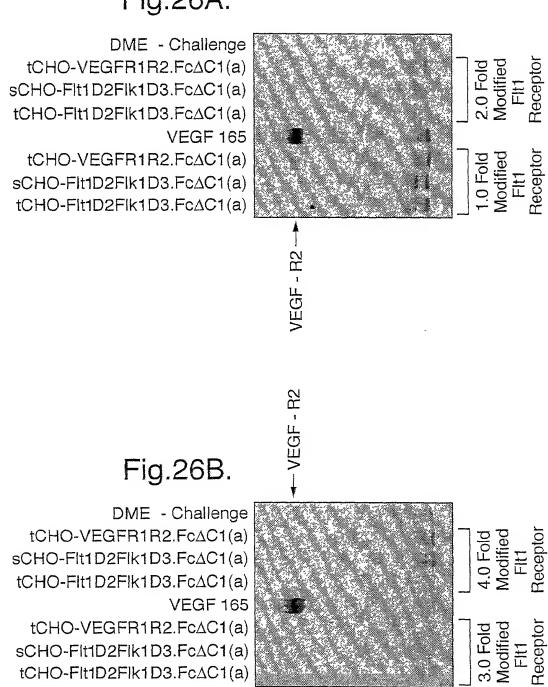








#### Fig.26A.



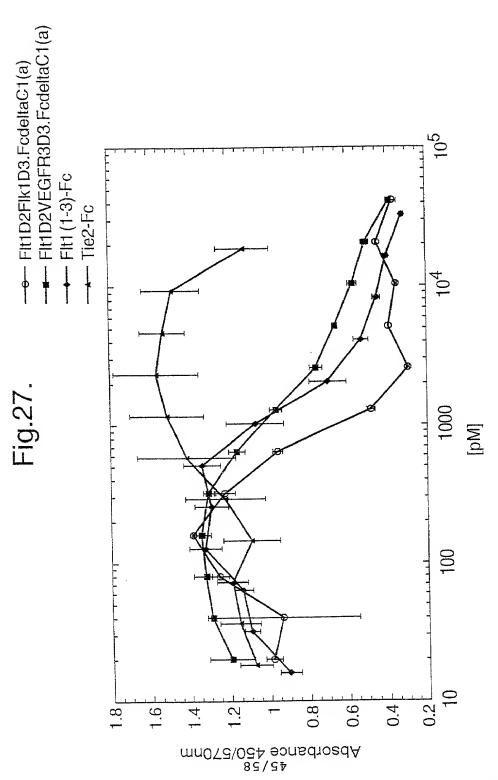




Fig.28.

	0.98		D2FIk1D3.FcΔC1(a) & VEGFR1R2-FcΔC1(a)  VEGF/VEGFR1R2-FcΔC1(a)  0.98  0.99  0.99	VEGE/FIL1D2FIK1D3.FcAC1(a) 0.93 0.97	binding St 1 10 50
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				VEGF/FIT1DZFIK1D3.FCAC1(a)	:GF165 (nM)
	hVEGF165 (nM) VEGF/FIt1D2FIK1D3.FcΔC1(a) VEGF/VEGFR1R2-FcΔC1(a)			toichiometry of five Grands to the	Binding of
Binding Stolchlometry of IIVE dr. 103 to 11 1 2 1 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 12 11 1	Binding Stoichiometry of IIVE of 1812 1921 1812 1812 1812 181 182 1818 1818	Binding Stoichiometry of tive of 103 to 1 to 25 miles in 125 miles in	D2FIK1D3 FcAC1(a) & VEGFR1R2-FcAC1(a)	141 of 981 = 0 = 1	7
1D2FIK1D3.F	Binding Stoichiometry of hVEGF165 to FIt1D2FIk1D3.FcΔC1(a) & VEGFR1R2-FcΔC1(a)  VEGFVEGFR1R2-FcΔC1(a)	Binding Stoichiometry of hVEGF165 to Flt1D2Flk1D3.FcΔC1(a) & VEGFR1R2-FcΔC1(a)			2 3 3 3 3 3 3





Fig.29.

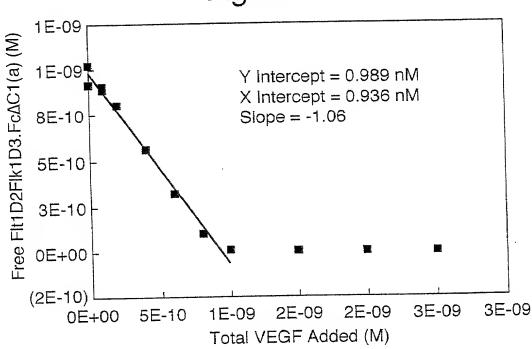
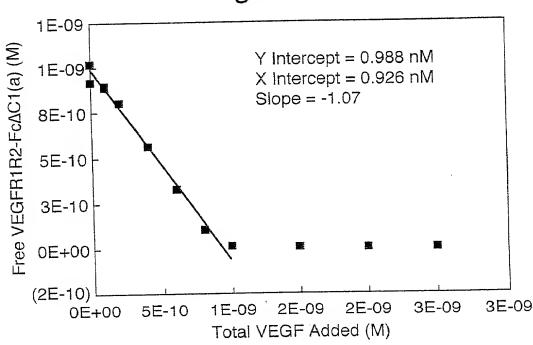
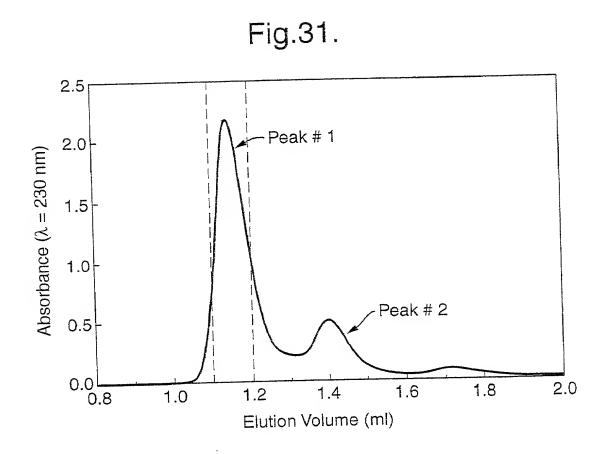


Fig.30.





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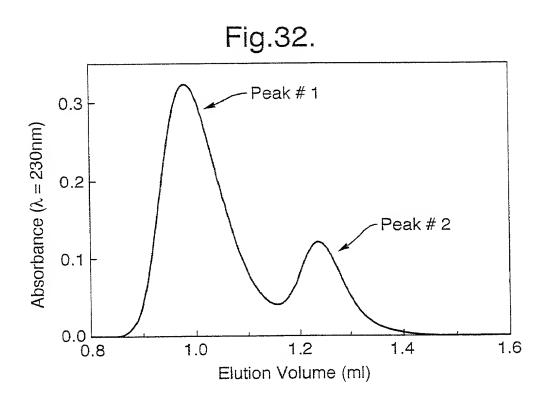
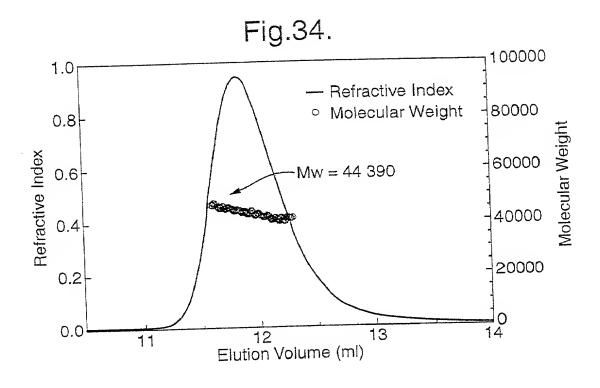
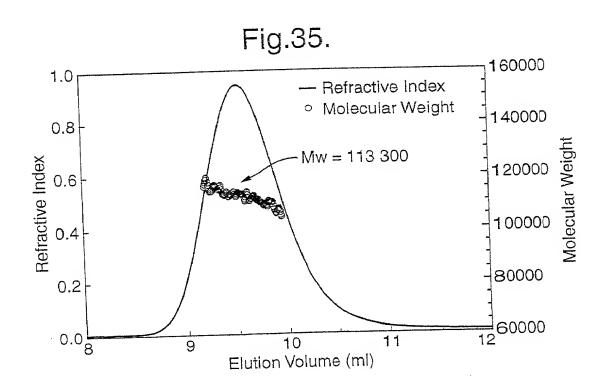


Fig.33. 250000 1.0 Refractive Index Peak#1 Molecular Weight 0.8 200000 Molecular Weight Refractive Index Peak # 2 Mw = 157 300 0.6 150000 0.4 100000 0.2 ⊒50000 14 0.0 12 13 10 11 9 Elution Volume (ml)







# Fig.36.

VVL.SPSHGIEL.SVGEKL.VL.<u>NC</u>TARTEL.NVGIDFNWEYPSSKHQHKKL.VNR KRIIWDSRKGFIIS<u>N</u>ATYKEIGLLT<u>C</u>EATVNGHLYKTNYLTHRQTNTIID GRPFVEMYSEIPEIIHMTEGRELVIPCRVTSPMITVTLKKFPLDTLIPDG

DLKTQSGSEMKKFLSTLTIDGVTRSDQGLYTCAASSGLMTKKNSTFVRVH

250

EKGPGDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVD

CXC

VSHEDPEVKFNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLN

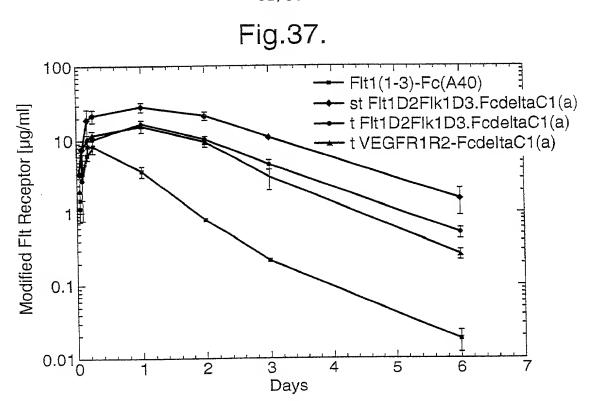
350 GKEYK<u>C</u>KVSNKALPAPIĒKTISKAKGQPREPQVYTLPPSRDELTKNQVSL

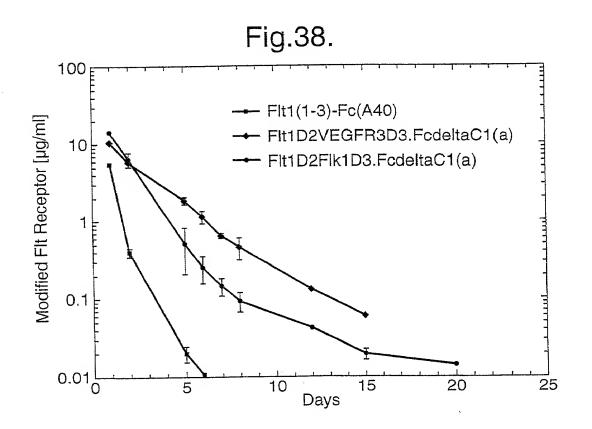
TCL VKGFYPSDIAVEWESNGQPENNYKTTPPVLDSDGSFFL YSKLTVDKS

RWQQGNVFSCSVMHEALHNHYTQKSLSLSPGK

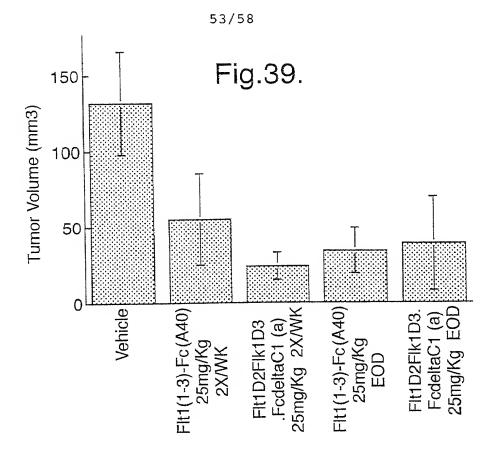


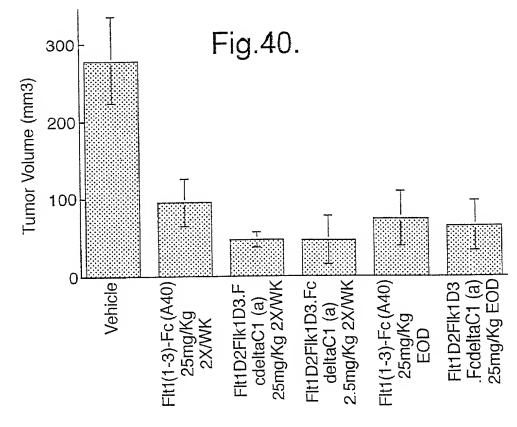






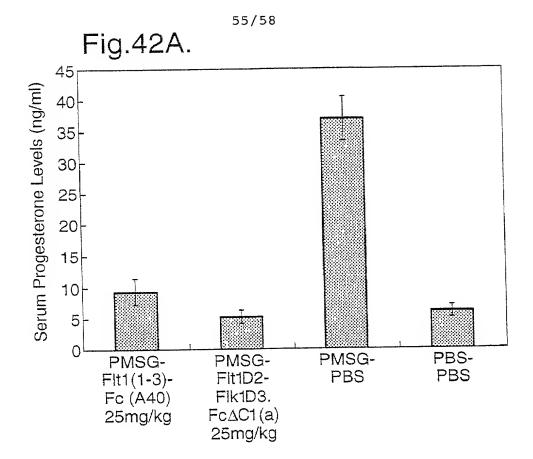


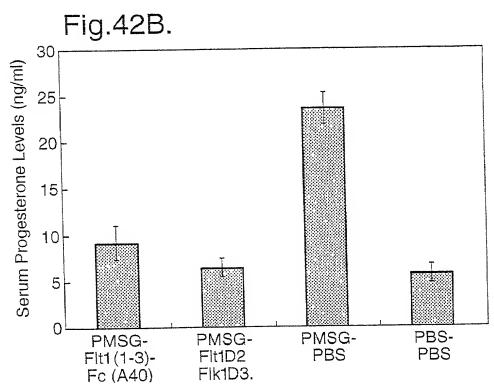


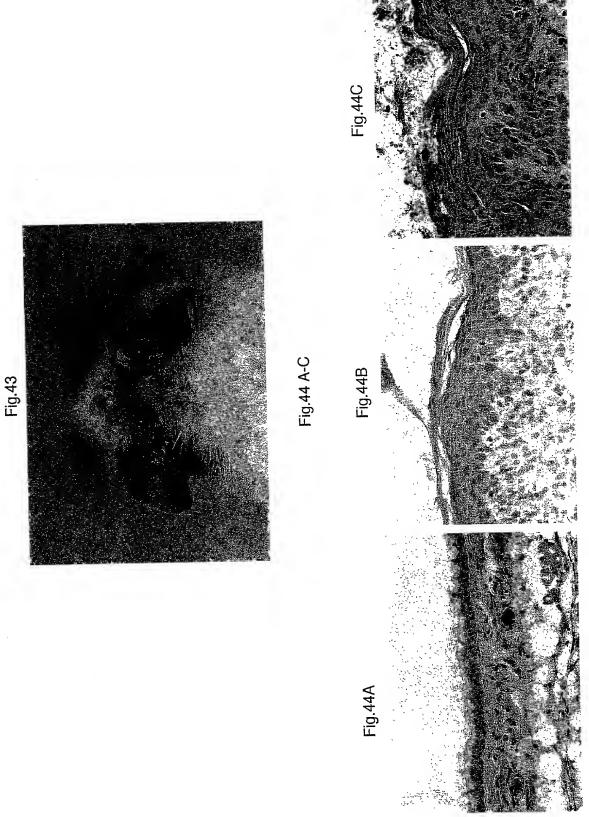


PMSG PMSG-FIt1D2FIK1 FIt1D2VEGFR3D3 D3. FcAC1 (a) . FcAC1 (a) Dessicated Wet PMSG-Flt1 (1-3)-Fc (A40) Fig.41. PMSG-PBS PBS-PBS 100 50 0 150 300 250 200 350 54/58 Uterine weight (mg)

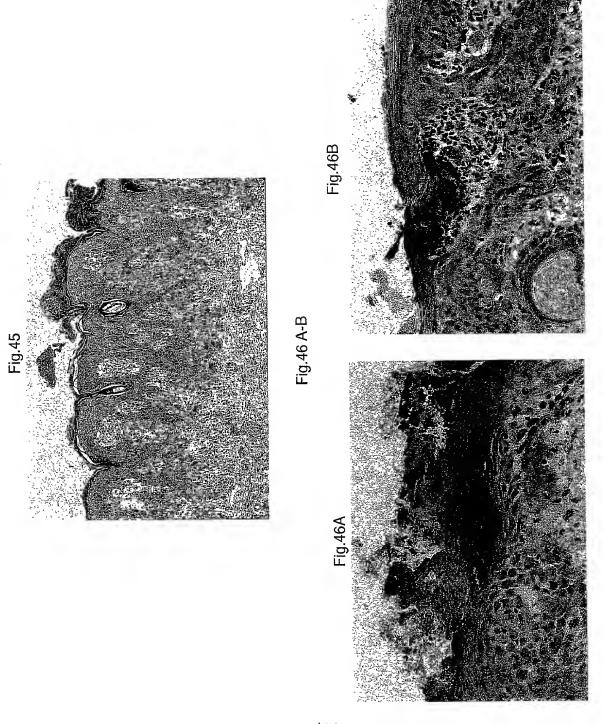






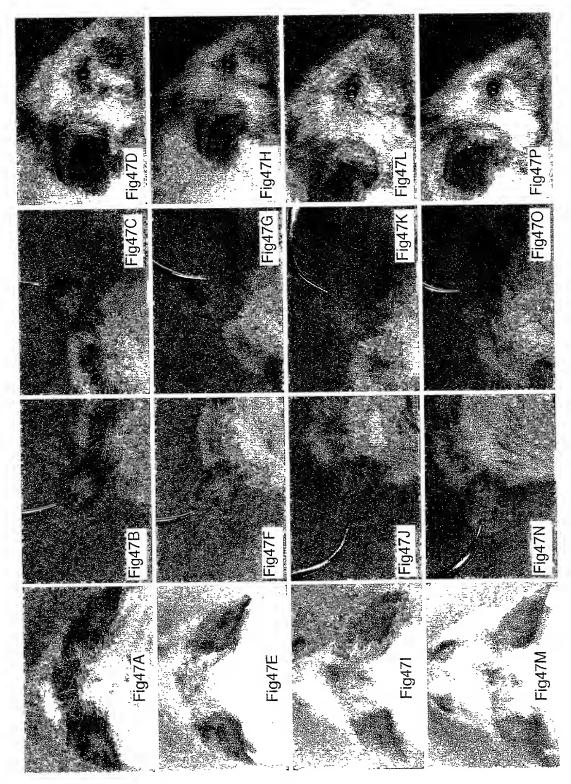






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